# A/V AMPLIFIERS & RECEIVERS

Get the best that digital entertainment has to offer with a first-class Pioneer A/V amplifier or receiver. Most models feature Pioneer's unique Multi-Channel Acoustic Calibration (MCACC) system so you can perfectly match the sound to your living room. This unique sound field adjustment system is available for most models, ranging from the new Advanced MCACC to MCACC Setup. Boasting the prestigious THX Ultra2 or THX Select certification, the top three units assure the highest quality audio reproduction. For superior digital audio transfers there's an i.LINK interface. Pioneer A/V amplifiers and receivers support all the latest surround sound formats, including Dolby Pro Logic IIx. Versatile slim-line models offer 4 Euro-SCART terminals for easy connection to other A/V components, as well as high-quality RGB video transfer. Cleverly crafted, every model blends superior design, top technology and functional features to offer pure performance. Cinema at home has never been so spectacular.

## ADVANCED MULTI-CHANNEL STEREOPHONIC PHILOSOPHY (VSA-AX10Ai, VSX-AX5Ai, VSX-2014i, VSX-1014)

In the days when we just had stereo, Pioneer went one step further and created 'stereophonic'. Now Pioneer is applying the same approach to multi-channel environments, with the focus on recreating both the sound and the passion of the original performance. To achieve this it has introduced an Advanced Multi-Channel Stereophonic Philosophy, based on three principles. First, to produce high-quality sounds you need the choicest parts. Next, you can only recreate precisely accurate sounds by calibrating and matching all the equipment in the acoustic environment. To help you do this, Pioneer has created an easy-to-use automatic (Advanced*) Multi-Channel Acoustic Calibration system. And last but not least, we want to reproduce the art in the sound. So we have fine-tuned our equipment using the expertise of professionals. Thanks to our collaboration with AIR Studios in London, meeting the demands of THX, and reproduction of the latest surround formats, the artistic qualities of the original sound shine through.

* Only on VSA-AX10Ai-S and VSX-AX5Ai-S.

### ADVANCED MULTI-CHANNEL STEREOPHONIC PHILOSOPHY

For more information see pages 54-57

| Professional Sound Studio | | = | | Conventional Living Room |
|---|---|---|---|---|
| ARTISTIC REPRODUCTION<br>Fine sound tuning by professional sound engineers | | STEP 3 | | PROFESSIONAL EXPERTISE<br>Sound tuning by AIR Studios, THX Ultra2 certification and reproduction of the latest surround formats |
| PRECISE REPRODUCTION<br>Measurement and calibration for trim level, distance and frequency response | | STEP 2 | | PRECISE SOUND REPRODUCTION<br>Pioneer's unique Advanced Multi-Channel Acoustic Calibration system |
| QUALITY REPRODUCTION<br>High-quality equipment which meets requirements of professional engineers | | STEP 1 | | HIGHEST QUALITY EQUIPMENT<br>Best possible parts and materials available for home sound equipment |

For more details on features and technology, please visit www.pioneer.co.uk

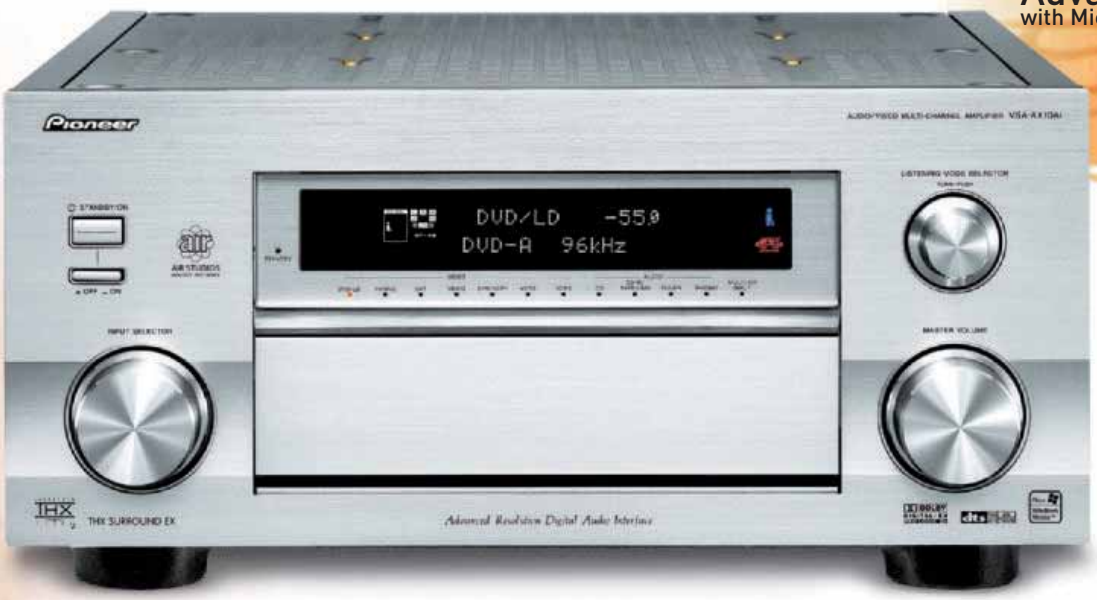
## VSA-AX10Ai-S Audio/Video Multi-Channel Amplifier — 170 W x 7 DIN

NEW

Advanced MCACC with Microphone

THX Ultra2

i.LINK



VSA-AX10Ai-S with open front input cover

Setup Microphone

- Enjoy eight-channel playback from any multi-channel programme over the widest possible seating area (THX Ultra2 certification)
- Measure and adjust acoustic parameters with the calibration microphone (Advanced MCACC with 9-band Equalizer)
- Get the clearest sound possible, with high-tech digital circuitry (Ultra Digital Core Engine)
- Appreciate premier top-notch digital surround sound coding technology for the Web (Windows Media™ Audio 9 Professional)
- Amplify 2-channel as well as multi-channel audio from your PC (Multi-channel USB terminal)
- Enjoy audiophile-pleasing crystal clear sound and deep bass thanks to control of unnecessary vibration (Stable Cast-Iron Base)
- Experience enhanced SACD sound quality and alternative SACD gain setting (176.4 kHz/32-bit high-precision DSD to PCM conversion)
- Air Studios Tuning, one of the most renowned recording studios in the world, contributed its best sound engineers and expertise to this stereophonic multi-channel amplifier
- Achieve the very best device-to-device digital audio data communication, with no quality-loss, and jitter-free transmission of DVD-Audio/CD/SACD (i.LINK)
- Enjoy high-performance audio with a minimum of distortion and suppressed signal interference (Direct Construction)
- Properly reproduce 7.1-channel high-end quality audio from the latest multi-channel formats (7-channel Advanced Direct Energy MOSFET)
- Immerse yourself in a natural 6.1- or 7.1-channel sound-field, transformed from 2- or 5-channel sources (Dolby Pro Logic IIx)
- Improve the sound quality of both stereo and multi-channel sources to a level approaching that of DVD-Audio (Audio Scaler)
- Appreciate extensive application of surround sound decoders for enjoyment of all the latest surround sound formats (DTS 96/24, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1, THX Surround EX, Dolby Digital EX, DTS NEO:6 and Dolby Pro Logic IIx)

### MULTI-CHANNEL ACOUSTIC CALIBRATION SYSTEM (VSA-AX10Ai, VSX-AX5Ai, VSX-2014i, VSX-1014)

Now you can create a professional sound stage right in your living room... The Multi-Channel Acoustic Calibration system (MCACC) is an automatic sound field adjustment system created by Pioneer experts in cooperation with AIR Studios professional sound engineers. Using the included calibration microphone, the MCACC system monitors the sound environment and automatically adjusts various sound parameters. The new Advanced MCACC* with 3-D calibration method enables even more accurate tonal measurement and calibration, as it considers the effects of room reverberation. See page 56 for more detailed information on (Advanced) MCACC.

* Only on VSA-AX10Ai-S and VSX-AX5Ai-S

### THX ULTRA2 PROCESSING AND CERTIFICATION (VSA-AX10Ai)

THX Ultra2 means enjoying exciting 7.1-channel playback performances from multi-channel programmes. Whereas original THX Ultra was intended for Dolby Pro Logic sources, THX Ultra2 is entirely adapted to recent high-quality digital formats such as DTS and Dolby Digital. Pioneer's VSA-AX10 was the first in the world to adopt this technology — a true breakthrough in home entertainment. THX Ultra2 ensures optimal multi-channel music and film enjoyment. In addition to THX Cinema and THX Surround EX, THX Ultra2 technology includes two new modes featuring THX exclusive technology, ASA (Advanced Speaker Array). THX Ultra2 Cinema allows non-Surround EX-encoded, Dolby Digital 5.1 and DTS 5.1 material to be played on a seven-speaker configuration. For music playback, THX Music Mode can handle all types of music formats, including high resolution DVD-Audio and SACD multi-channel music recordings.

For full features and specifications, please see pages 88 — 91.

## VSX-AX5Ai-S Audio/Video Multi-Channel Receiver — 120 W x 7 DIN

NEW

Advanced MCACC
with Microphone

i.LINK

Setup Microphone

VSX-AX5Ai-S with open front input cover

- Measure and adjust acoustic parameters with the calibration microphone (Advanced MCACC with 5-band Equalizer)
- Enjoy audiophile-pleasing high-fidelity sound, thanks to absorption of unwanted internal and external vibrations (Double-layered chassis, and Stable Cast-Iron Insulators)
- Amplify 2-channel audio from your PC (USB terminal)
- Benefit from increased stability, and clean and smooth delivery of powerful audio (Two 27,000µF large capacitors)
- Improve the sound quality of both stereo and multi-channel sources to a level approaching that of DVD-Audio (Audio Scaler)
- A 70 µm copper foil PCB ensures lower impedance and larger current capacity
- Air Studios Tuning, one of the most renowned recording studios in the world, contributed its best sound engineers and expertise to this stereophonic multi-channel receiver
- Hook up your video components easily thanks to the flexible Universal video converter
- Achieve the very best device-to-device digital audio data communication, with no quality-loss, and jitter-free transmission of DVD-Audio/CD/SACD (i.LINK)
- Properly reproduce 7.1-channel high-end quality audio from the latest multi-channel formats (7-channel Advanced Direct Energy MOSFET)
- Enjoy superior multi-channel playback suitable for a mid-sized living area (THX Select certification)
- Appreciate extensive application of surround sound decoders for enjoyment of all the latest surround sound formats (DTS 96/24, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1, Dolby Digital EX, THX Surround EX, DTS NEO:6 and Dolby Pro Logic IIx)
- Immerse yourself in a natural 5.1-, 6.1-, or 7.1-channel sound-field, transformed from 2- or 5-channel sources (Dolby Pro Logic IIx)

### HIGH-QUALITY PARTS (VSX-AX5Ai)

To further improve the sound quality, the VSX-AX5Ai-S features a roster of new high-quality parts. A stable cast iron insulator, made by TAOC, increases chassis rigidity, serving to reduce external vibration. New 27,000µF large capacitors have been incorporated in the VSX-AX5Ai-S; they were selected to match the THX Select specification. Designed especially for audio, they ensure extra stability and excellent response to large power swings. A 70 µm copper foil PCB — twice as thick as a conventional one — results in lower impedance and larger current capacity.

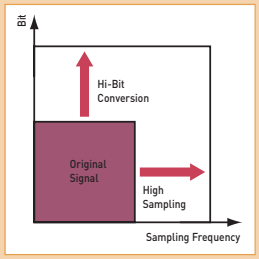
27,000 µF large capacitor

### USB TERMINAL FOR PURE PC AUDIO PLAYBACK (VSA-AX10Ai, VSX-AX5Ai)

Many people enjoy listening to music on their PC, but without proper (outboard) amplification, it is hard to do justice to the sound quality of PC audio sources. Thanks to this unique USB terminal, it is possible to amplify 2-channel audio from a PC. With VSA-AX10Ai-S, you can amplify multi-channel audio as well, creating an overwhelming sound experience compared to what is usually achieved through typical PC audio systems.

### AUDIO SCALER (VSA-AX10Ai, VSX-AX5Ai)

Pioneer's 'Audio Scaler' technology improves the sound quality of both stereo and multi-channel sources (such as CD, MD, DVD, PC Audio) to a level approaching that of DVD-Audio. Hi-Bit conversion first expands the bit length of the linear PCM signal to 24 bits. The result is more detailed sound with less deterioration, closer to the original signal. At the same time, Pioneer's high-sampling digital filter technology enlarges the frequency bandwidth, restoring a sense of the high frequencies which were present in the original recording. The final result is a more relaxed, musical sound quality.




For more details on features and technology, please visit www.pioneer.co.uk

**VSX-2014i-S** Audio/Video Multi-Channel Receiver **120 W x 7 DIN**

**NEW**

## Auto MCACC
with Microphone

## i.LINK

Setup Microphone

VSX-2014i-S with open front input cover

- Achieve the very best device-to-device digital audio data communication, with no quality-loss, and jitter-free transmission of DVD-Audio/CD/SACD (i.LINK)
- Hook up your video components easily thanks to the flexible Universal Video Converter
- Benefit from ensured maximum transparency of delicate audio signals thanks to this thick steel stabiliser (Transformer Stabiliser)
- Enjoy high-performance audio with a minimum of distortion and suppressed signal interference (Direct Construction)
- Measure and adjust acoustic parameters with the calibration microphone (MCACC with 5-band Equalizer)
- Enjoy superior multi-channel playback suitable for a mid-sized living area (THX Select certification)
- Appreciate extensive application of surround sound decoders for enjoyment of all the latest surround sound formats (DTS 96/24, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1, Dolby Digital EX, THX Surround EX, DTS NEO:6 and Dolby Pro Logic IIx)
- Immerse yourself in a natural 5.1- or 6.1-channel sound-field, transformed from 2- or 5-channel sources (Dolby Pro Logic IIx)
- Properly reproduce 7.1-channel high-end quality audio from the latest multi-channel formats (7-channel Advanced Direct Energy MOSFET)

### i.LINK (ADVANCED RESOLUTION DIGITAL AUDIO INTERFACE) AND PQLS FOR DIGITAL TRANSMISSION (VSA-AX10Ai, VSX-AX5Ai, VSX-2014i)

Clearly high resolution sounds (multi-channel and 2-channel) from DVD-Audio and SACD have enhanced the realism of listening to music at home. But some of the fine details are lost in the digital-to-analogue conversion and subsequent analogue transfer from the player to the amplifier, where possibly an additional analogue-to-digital conversion is performed for extended digital signal processing. To preserve the fine details which could be lost during digital signal processing, the above-mentioned amplifier and receivers feature the i.LINK* Advanced Resolution Digital Audio Interface. i.LINK supports device-to-device digital audio data transfers of all major compressed and uncompressed formats including operational commands. This advanced digital audio interface uses only one digital cable instead of multiple analogue cables, in order to easily connect the amplifier/receiver with any i.LINK-equipped audio source component — for example a DVD-Audio/Video/SACD/CD player — to handle multi-channel DVD-Audio and SACD discs, not to mention digital audio from DVD-Video and CD. Pioneer's PQLS (Precision Quartz Lock System) enables the amplifier/receiver to conform the speed of the DVD player's signal transfer to its own crystal clock speed. The original digital bit stream will be regenerated in the amplifier/receiver using its own clock. Hence, jitter resulting from the signal transmission is reduced to an absolute minimum**, and SACD and DVD-Audio sound reproduction is as true to the original source as possible.

i.LINK circuit board

* The i.LINK interface is also known as IEEE1394 or FireWire. FireWire is a trademark. 'i.LINK' and the 'i.LINK' logo are trademarks.
** When connected to a source player (DVD player, CD/SACD player) with compatible feature such as PQLS.

### UNIVERSAL VIDEO CONVERTER
(VSA-AX10Ai, VSX-AX5Ai, VSX-2014i)

With this flexible video converter feature, hooking up video components is foolproof. There is no need to connect every terminal because the amplifier/receiver converts the input video signal to all available video output terminals*. With a selection of connection options, it is easy to configure any home installation. For high-end systems, composite and S-Video input sources can be output at component video level to plasma displays or projectors. Additionally, composite and S-Video signals can be mutually converted and output.

* Except component to S-Video or composite video.

For full features and specifications, please see pages 88 — 91.

## VSX-1014-S/K Audio/Video Multi-Channel Receiver

**120 W x 7 DIN**

NEW

Auto MCACC
with Microphone

Setup Microphone

VSX-1014-S

VSX-1014-S with open front input cover

VSX-1014-K

- Enjoy superior multi-channel playback suitable for a mid-sized living area (THX Select certification)
- Properly reproduce 7.1-channel high-end quality audio from the latest multi-channel formats (7-channel Advanced Direct Energy MOSFET)
- Measure and adjust acoustic parameters with the calibration microphone (MCACC with 5-band Equalizer)
- Benefit from the reinforced physical strength of the receiver for a more open and fresh sound (3-D space frame construction)
- Enjoy added convenience and control with the new pre-set & learning remote control with LCD display
- Immerse yourself in a natural 5.1- or 6.1-channel sound-field, transformed from 2- or 5-channel sources (Dolby Pro Logic IIx)
- Appreciate extensive application of surround sound decoders for enjoyment of all the latest surround sound formats (DTS 96/24, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1, Dolby Digital EX, THX Surround EX, DTS NEO:6 and Dolby Pro Logic IIx)
- Choose depth and quality of sound to suit your taste and entertainment (Original Surround Modes)
- Component video (in/out) with maximum quality, including support for High-Definition and progressive signal sources (Component Video In/Out terminal)
- Enjoy high-performance audio with a minimum of distortion and suppressed signal interference (Direct Construction)
- View status and control features on a Pioneer Plasma Display (SR+ terminal)
- Connect your speaker set easily and with precision (Large screw-type speaker terminals — L/R/C/LS/RS/SBL/SBR)

### THX SELECT CERTIFICATION

(VSX-AX5Ai, VSX-2014i, VSX-1014)

Developed by Lucasfilm Productions, THX is a seal of approval found on home cinema equipment, like DVD players, and software, such as DVD titles. It signifies that the highest quality standards have been used.
Lucasfilm created an equipment standard known as THX Select for receivers and loudspeakers that are certified for mid-size home theatre use.

### NEW LCD PRESET & LEARNING REMOTE CONTROL

(VSX-2014i, VSX-1014)

Operating your receiver just got even simpler. These receivers are outfitted with Pioneer's exclusive new remote control, with an intuitive and easy-to-understand key layout. It features an LCD display, which gives information about the source currently being controlled. It enhances ease-of-use between the receiver and a Pioneer DVD player, DVD recorder and plasma TV. And, it includes a host of preset codes and learning capability, which make setting up a cinch.

### PIONEER ORIGINAL DIGITAL CORE ENGINE FOR CRYSTAL-CLEAR SOUND (VSX-2014i, VSX-1014, VSX-D814, VSX-D714, VSX-D514)

The newly developed Digital Core Engine is a milestone in digital circuitry design. Using the very latest Quadra layered circuitry forming technology, all digital processing — from digital input to D/A conversion — can be done on a single highly concentrated circuitry board. The result? Crystal clear sound with the lowest possible noise and an extremely high S/N ratio.

For more details on features and technology, please visit www.pioneer.co.uk

**VSX-D814-S/K** A/V Receiver **100 W x 6 DIN**

NEW

## Auto MCACC Setup
with Microphone

Setup Microphone

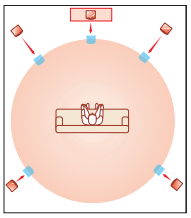
VSX-D814-S

VSX-D814-S with open front input cover

VSX-D814-K

- Achieve the ideal listening environment with ease; acoustic parameters are measured and adjusted with the calibration microphone (Automatic MCACC Setup)
- Dual Surround Back Speaker Compatibility for 7.1-channel speaker setting
- Component video (in/out) with maximum quality, including support for High-Definition and progressive signal sources (Component Video In/Out terminal)
- Appreciate extensive application of surround sound decoders for enjoyment of all the latest surround sound formats (DTS 96/24, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1, Dolby Digital EX, DTS NEO:6 and Dolby Pro Logic IIx)
- Benefit from exciting multi-channel surround sound reproduction from a variety of sources — even 2-channel (Dolby Pro Logic IIx, DTS NEO:6)
- Immerse yourself in a natural 5.1- or 6.1-channel sound-field, transformed from 2- or 5-channel sources creating a total surround experience for music and movies (Dolby Pro Logic IIx)
- Experience high sound quality, thanks to effective control of temperature by the Pioneer Hybrid Amplification (PHA Element)
- Gain crystal clear sound with high-tech digital circuitry (Digital Core Engine with 150 Mips 48-bit processing DSP)
- Set the correct surround sound easily, simply by inputting the room size, seat-position and number of speakers (Quick Setup)
- Enjoy high-performance audio with a minimum of distortion and suppressed signal interference (Direct Construction)
- Connect your speaker set easily and with precision (Large screw-type speaker terminals — L/R/C/LS/RS/SBL/SBR)

SPEAKER DISTANCE ADJUSTMENT



### EASY AND PRECISE SETUP WITH MCACC (VSX-D814, VSX-D714, VSX-C502)*

MCACC Multi-channel Acoustic Calibration System

The MCACC (Multi-Channel Acoustic Calibration System) Setup, jointly developed with world-renowned AIR studios, situated in London, is a user-friendly sound-field adjustment system, which enables you to adjust acoustic conditions to match your living room environment — like a mini sound stage in your own home. MCACC Setup comes with automatic and/or manual adjustment capability.

### Automatic MCACC SETUP (VSX-D814, VSX-C502)

The beauty of this system is that you can automatically adjust your home system just like professionals. The Auto-MCACC Setup system uses a microphone to monitor the sound environment in the room from the listener's perspective. It determines the size and number of speakers, and channel level, as well as distance between the listener and the speakers.

* See page 52 for information on Manual MCACC Setup, featured in the VSX-D714-S/K.

### DUAL SURROUND BACK CAPABILITY (VSX-D814)

For an even more impressive surround sound performance, take advantage of the VSX-D814-S/K's Dual Surround Back capability. Thanks to its 6-channel power amplifier, it can drive two surround back speakers. This makes it an ideal receiver to reproduce surround formats using a Surround Back channel, such as Surround EX. You'll be immersed in a smooth and natural surround field coming from the back.

For full features and specifications, please see pages 88 — 91.

## VSX-D714-S/K A/V Receiver

NEW

**100 W x 5 DIN**

### Manual MCACC
Setup

### Component
### Video In/Out

VSX-D714-S

VSX-D714-S with open front input cover

VSX-D714-K

- Component Video (In/Out) with maximum quality, including support for High-Definition and progressive signal sources (Component Video In/Out terminal)
- Immerse yourself in a natural 5.1- or 6.1-channel sound-field, transformed from 2- or 5-channel sources creating a total surround experience for music and movies (Dolby Pro Logic IIx)
- Appreciate extensive application of surround sound decoders for enjoyment of all the latest surround sound formats (DTS 96/24, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1, Dolby Digital EX, DTS NEO:6 and Dolby Pro Logic IIx)
- Benefit from exciting multi-channel surround sound reproduction from a variety of sources — even 2-channel (Dolby Pro Logic IIx, DTS NEO:6)
- Experience high sound quality, thanks to effective control of temperature by the Pioneer Hybrid Amplification (PHA Element)
- Gain crystal clear sound with high-tech digital circuitry (Digital Core Engine with 150 Mips 48-bit processing DSP)
- Set the correct surround sound easily, simply by inputting the room size, seat-position, and number of speakers (Quick Setup)
- Enjoy high-performance audio with a minimum of distortion and suppressed signal interference (Direct Construction)
- Connect your speaker set easily and with precision (Large screw-type speaker terminals — L/R/C/LS/RS)

## EASY AND PRECISE SETUP WITH MCACC

### Manual MCACC Setup (VSX-D814, VSX-D714)

The Manual MCACC Setup does not have a microphone to act as a sensor. So, is it back to an all-manual Setup? Not quite. To help you accurately fine-tune the 'channel level' and 'channel delay', we've provided special test tones to each connected speaker. You'll be delighted with the extremely precise settings achieved.

### DOLBY PRO LOGIC IIx (VSA-AX10Ai, VSX-AX5Ai, VSX-2014i, VSX-1014, VSX-D814, VSX-D714, VSX-C502)

Dolby Pro Logic IIx expands upon the popular Dolby Pro Logic II technology. With Dolby Pro Logic IIx, these amplifier/receivers have the ability to process 2- or 5-channel sources into 6.1-, or 7.1-channel output according to the model capability and speaker configuration. Dolby Pro Logic IIx creates a highly immersive, natural sound field and gives added depth and dimension to music and movies. Use the Movie and Music modes to match the sound experience even more closely to the source.

For more details on features and technology, please visit www.pioneer.co.uk

## VSX-D514-S/K A/V Receiver

**80 W x 5 DIN**

NEW

## Multi-channel
Surround Sound

VSX-D514-S

VSX-D514-K

- Immerse yourself in exciting multi-channel surround sound from a variety of sources, even from 2-channel sources (Dolby Pro Logic II)
- Experience high sound quality, thanks to effective control of temperature by the Pioneer Hybrid Amplification (PHA Element)
- Gain crystal clear sound with high-tech digital circuitry (Digital Core engine with 150 Mips 48-bit processing DSP)
- Set the correct surround sound easily, simply by inputting the room size and number of speakers (Quick Setup)
- Enjoy high-performance audio with a minimum of distortion and suppressed signal interference (Direct Construction)
- Connect your speaker set easily and with precision (Large screw-type speaker terminals — L/R/C/LS/RS)

### DIRECT CONSTRUCTION FOR OPTIMAL SIGNAL ROUTE

(VSX-AX5Ai, VSX-2014i, VSX-1014, VSX-D814, VSX-D714, VSX-D514)

Most of Pioneer's A/V receivers are designed with a highly efficient, or 'direct', internal construction, which minimises distortion and suppresses signal interference between circuits. This is achieved by positioning parts more efficiently along the signal route, separating digital and analogue circuits and reducing the PCB units. These measures contribute to producing the highest grade of audio and video reproduction.

Direct Construction

### ADVANCED QUICK SETUP (VSX-D814, VSX-D714, VSX-D514)

With the advanced quick setup feature, you can easily set up the system for more accurate surround sound — in just four steps. First, the receiver automatically detects whether a subwoofer is connected. Second, you select which speakers are connected. Third, choose one of the pre-set room sizes (large, medium, small) and fourth, indicate the listening position (forward, middle, back). The receiver automatically sets up channel levels and speaker distance according to the settings chosen, for a perfect listening experience. For more fine-tuned settings, normal setup is also available.

For full features and specifications, please see pages 88 — 91.

## VSX-C502-S A/V Receiver — 100 W x 6 RMS

NEW

**Auto MCACC Setup**
with Microphone

**Slim**
& Stylish

Setup Microphone

VSX-C502-S with open front input cover

- Achieve the ideal listening environment with ease; acoustic parameters are measured and adjusted with the calibration microphone (Automatic MCACC Setup)
- Immerse yourself in a natural 5.1- or 6.1-channel sound-field, transformed from 2- or 5-channel sources (Dolby Pro Logic IIx)
- Appreciate extensive application of surround sound decoders for enjoyment of all the latest surround sound formats (DTS 96/24, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1, Dolby Digital EX, DTS NEO:6 and Dolby Pro Logic IIx)
- Benefit from a simpler connection of various A/V components and high-quality RGB video data transfer (4 Euro-SCART terminals)
- Gain crystal clear sound with high-tech digital circuitry (Digital Core engine with 150 Mips 48-bit processing DSP)
- Control the basic functions of a Pioneer DVD recorder with ease, with this A/V receiver's remote control
- View status and control features on a Pioneer Plasma TV (SR+ Terminal)

## VSX-C402-S/K A/V Receiver — 75 W x 5 RMS

NEW

**Slim**
& Stylish

VSX-C402-S

VSX-C402-S with open front input cover

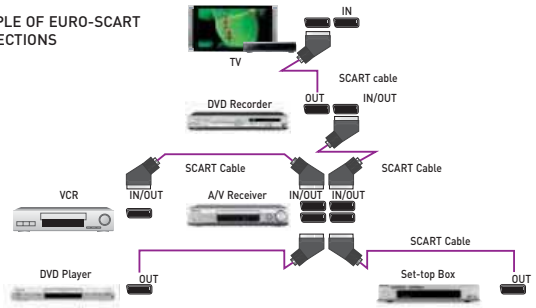
VSX-C402-K

- Bring exceptional style into your living space with this super-slim design, which matches the DV-470 slim DVD-Video player
- Benefit from a simpler connection of various A/V components and high-quality RGB video data transfer (4 Euro-SCART terminals)
- Hear centre channel dialogue so enhanced it seems as though it were emanating from your TV screen (Dialogue Enhancement)
- Compatible with mainstream surround sound formats (Dolby Digital, DTS, Dolby ProLogic II)
- Control the basic functions of a Pioneer DVD recorder with ease, with this A/V receiver's remote control

## WIDE RANGE OF EASY CONNECTIONS WITH EURO-SCART TERMINALS (VSX-C502, VSX-C402)

Euro-SCART terminals make connecting a range of A/V components so simple. And you can be sure of top quality data transmission at the same time. The VSX-C502-S and VSX-C402-S/K A/V receivers each have 4 Euro-SCART terminals — 2 in/out and 2 in. This allows for very easy, high-quality connections between the receiver and a range of other devices, such as a DVD player, DVD recorder, VCR, TV, set-top box, game console, etc., as shown in the accompanying illustration. It makes recording between components a snap, such as from the set-top box to the DVD recorder or VCR.
For the best picture quality playback, the Euro-SCART terminals can handle RGB video signals (3 in/1 out).

EXAMPLE OF EURO-SCART CONNECTIONS




## SR+ INTERFACE (VSX-2014i, VSX-1014, VSX-D814, VSX-D714, VSX-C502, VSX-C402)

One interface and the whole home cinema system is at your fingertips. With the latest SR+ interface you can integrate the A/V receiver with your new Pioneer Plasma TV with minimum fuss. Everything you need to produce the ultimate listening experience — receiver status and controls such as volume level, surround mode, MCACC Setup and all initial setup features — are displayed on the Plasma display. With SR+ interface, the Plasma TV's Multimedia Receiver automatically follows the input of the A/V receiver and the Plasma TV's infrared receptor also accepts remote commands via Pioneer A/V products using the SR+ interface.

## EASY ROOM AND SEAT SETUP (VSX-D814, VSX-D714, VSX-D514, VSX-C402)

Now you can select your room size and seat position for maximum sound impact. By using the Room Setup button, you can select the size of your room (large, medium, small) and the sound will be adjusted accordingly. You're also able to indicate your listening position (forward, middle, back) so that the sound (delay) can be matched to where you're sitting.

## PIONEER ORIGINAL SURROUND MODES & LISTENING MODES (MOST A/V RECEIVERS)

VIRTUAL SURROUND BACK

EXPANDED THEATER

MIDNIGHT LISTENING

PHONES SURROUND

Pioneer A/V receivers offer a wide range of pre-defined easy-to-use Original Surround modes and listening modes to enhance the sound for specific listening conditions and sources. 5/6/7-Channel Stereo uses all the speakers in the system to simulate a stereo feeling and create rich original surround sound modes. 6/7-Channel Stereo mode is in effect when one or two Surround Back speakers are used; if not, 5-Channel Stereo mode takes effect. TV Surround produces surround sound from mono or stereo TV sources, Game mode enhances video game sound, Sports mode gives the impression of being in the middle of a sports stadium, and Phones Surround reproduces overall surround sound for headphone listening. Advanced Movie reproduces a mid-size movie theatre environment, while Advanced Music duplicates the acoustics of a large concert hall. Virtual Surround Back creates a highly convincing 'phantom' surround back sound behind the listener. Expanded Theatre mode adds more sound depth to Dolby Surround sources, while allowing faithful reproduction of 5-channel speaker sound. Midnight Listening mode adjusts subwoofer, rear and centre speaker levels, while enhancing delay and compressing the dynamic range, for better cinema-like sound at a low volume.
See the charts on pages 89 — 91 for availability of modes for each receiver.

| | VSA-AX10Ai-S | VSX-AX5Ai-S | VSX-2014i-S | VSX-1014-S/K | VSX-D814-S/K | VSX-D714-S/K | VSX-D514-S/K | VSX-C502-S | VSX-C402-S/K |
|---|---|---|---|---|---|---|---|---|---|
| Power Output | 170 W x 7 DIN | 120 W x 7 DIN | 120 W x 7 DIN | 120 W x 7 DIN | 100 W x 6 DIN | 100 W x 5 DIN | 80 W x 5 DIN | 100 W x 6 RMS | 75 W x 5 RMS |
| MCACC | Advanced Auto | Advanced Auto | Auto | Auto | Auto | Manual | — | Auto | — |
| DTS ES/DTS 96/24 | ✓/✓ | ✓/✓ | ✓/✓ | ✓/✓ | ✓/✓ | ✓/✓ | — | ✓/✓ | — |
| Dolby Pro Logic IIx | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | — | ✓ | — |
| Dolby Digital EX | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | — | ✓ | — |
| DTS NEO:6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | — | ✓ | — |
| Component Video In/Out terminal | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | — | — | — |
| Dolby Digital/Dolby Pro Logic II/DTS | ✓/✓/✓ | ✓/✓/✓ | ✓/✓/✓ | ✓/✓/✓ | ✓/✓/✓ | ✓/✓/✓ | ✓/✓/✓ | ✓/✓/✓ | ✓/✓/✓ |
| SCART terminals | — | — | — | — | — | — | — | 4 | 4 |
| Dialogue Enhancement | — | — | ✓ | ✓ | — | — | — | ✓ | ✓ |
| SR+ terminal | — | — | ✓ | ✓ | ✓ | ✓ | — | ✓ | ✓ |

For full features and specifications, please see pages 88 — 91.

# A/V AMPLIFIERS & RECEIVERS

## HIGHEST QUALITY EQUIPMENT

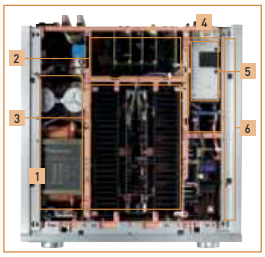
Based on a tri-concept philosophy combining ultra rigid construction, the best-in-class amplifier design and advanced digital processing, only the most select parts as well as cutting-edge Pioneer technology are found in Pioneer's high-end A/V amplifier and receivers. It is clear that these high-class components were designed with a quest for pure sound perfection.

## ULTRA RIGID CONSTRUCTION

**Innovative frame design concept and concentrated direct construction design for superior support** (VSA-AX10Ai, VSX-AX5Ai, VSX-2014i, VSX-1014)

The revolutionary 3-D space frame construction reinforces the physical strength of the amplifiers/receivers. Unlike traditional 2-D chassis designs, each part is fixed to the frame from various angles, so the unit has the strength to support the heavy transformer, without any distortion. The double-layered chassis ensures an extremely strong and rigid base for the 3-D frames. In addition, the chassis is copper-plated* to suppress signal interference between circuits and reduce ground impedance. This 3-D space frame works simultaneously with the concentrated direct construction to further minimise signal interference as well as reduce the signal path. Each circuit is separated — allowing a more direct and extremely pure signal route — which results in an open and fresh sound.

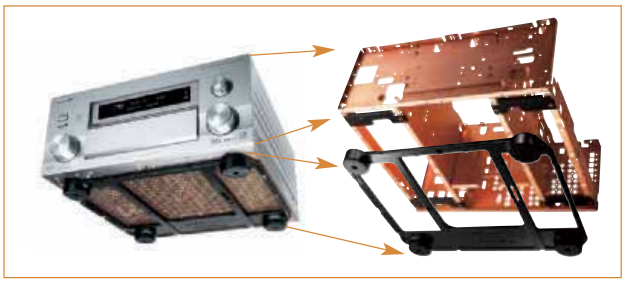
* VSA-AX10Ai-S only




VSA-AX10Ai: 3-D space frame with direct construction design
1) Power supply 2) Video block 3) Power Amplifier
4) Audio block 5) i.LINK block 6) Digital block

**Stable cast iron base for ultimate chassis rigidity**
(VSA-AX10Ai, VSX-AX5Ai)

Combined with the 3-D space frame, the stable cast iron base realises heretofore unknown chassis rigidity. The heavy 4 kg cast iron base, made by TAOC — known as the quality audiophile accessory brand — overwhelmingly enhances the strength and stability of the chassis. And it serves to support and intercept external vibration thanks to its specially designed material — 10 times more anti-resonant than steel. The base contacts the frame at 15 points with the newly developed, patent-pending pivot-shape for crystal-clear and even deeper bass sound. The same concept is applicable to the VSX-AX5Ai-S, with cast iron TAOC insulators.



Cast iron base and 3-D space frame construction

**Unwanted vibrations reduced thanks to Transformer Stabiliser** (VSA-AX10Ai, VSX-AX5Ai, VSX-2014i)

To offer even more stability and rigid support for the VSA-AX10Ai-S's heavy 10 kg transformer, an extra 2.0 mm thick steel stabiliser is attached to the transformer frame. This carefully designed construction was implemented after thorough simulation by advanced CAD (Computer Aided Design) technology. The chassis is prevented from causing unwanted vibration during sound reproduction, ensuring maximum transparency of delicate audio signals. The VSX-AX5Ai-S and VSX-2014i-S also feature thick steel plates under the transformers to stabilise vibrations.

## HIGH-QUALITY AMPLIFIER DESIGN

**7-channel Advanced Direct Energy MOSFET for solid high performance audio** (VSA-AX10Ai, VSX-AX5Ai, VSX-2014i, VSX-1014)

AC/DC isolated amplifier module

Advanced Direct Energy MOSFET

One of the secrets to these amplifier/receivers is Pioneer's exclusive Advanced Direct Energy (A.D.E.) MOSFET. It produces an amazingly efficient, high-end sound quality with equally amplified power for each channel, to ensure consistent sound quality for multi-channel applications. This highly advanced circuitry is designed to offer high stability and ultra-linear amplification combined with low energy loss. A new AC/DC isolated amplifier module — designed especially to optimise the A.D.E. MOSFET performance under any condition — combined with the built-in temperature adjustment, minimises power imbalances that can cause distortion in the sound stage.

**High sound quality by PHA (Pioneer Hybrid Amplification)** (VSX-D814, VSX-D714, VSX-D514)

Temperature is the key factor for ideal Total Harmonic Distortion specifications, since heat directly affects the amount of bias required by an output transistor to reproduce sound.
Pioneer's thermal compensation transistor provides temperature feedback to the bias circuit, ensuring that the correct amount of bias is applied to the transistors, regardless of temperature. Moreover, to enhance heat dissipation, the output transistor's thermal compensation circuits are all mounted to the same portion of the heat sink. This unique approach is similar to the technology used for the Advanced Direct Energy MOSFET power device.

**7-channel symmetrical power train design for precise sound imaging**
(VSA-AX10Ai, VSX-AX5Ai, VSX-2014i, VSX-1014)

VSA-AX10Ai: Amplifier section with symmetrical power train design

To balance electrical, physical and magnetic elements between the 7 channels for the most precise sound stage reproduction, Pioneer designed each power amplifier symmetrically on each side of the heat sink. This 'symmetrical power train' creates a uniform sound field for all channels.

**Chimney-shaped heat sink for efficient heat dissipation and low resonance**
(VSA-AX10Ai)

Chimney-shaped large heat sink

Since this amplifier incorporates 7-channel, high power units, it generates a huge amount of energy. The chimney-shaped heat sink acts as a natural cooling system, releasing excess heat from the power elements which could otherwise adversely affect operation. There is less resonance compared to general cooling systems, and the sound remains transparent to the source input signal.

For more details on features and technology, please visit www.pioneer.co.uk

**▮ High regulation power transformer for stable power supply**
(VSA-AX10Ai, VSX-AX5Ai, VSX-2014i, VSX-1014)

Large power supply transformer (VSA-AX10Ai)

Pioneer has developed a state-of-the-art large power transformer — for the VSA-AX10Ai-S, weighing in at 10 kg — to guarantee a stable and super-abundant power supply. There's no S/N ratio degradation caused by internal energy loss, or magnetic leakage, and interference caused by vibration is reduced. You get constant strong power even at maximum volume!

**▮ Large capacitors for clean and stable power at all times**
(VSA-AX10Ai, VSX-AX5Ai)

Large electrolytic capacitors

For extra stability and instant response to large power swings, two 33,000µF* large capacitors, designed exclusively for audio, are used. The low-loss thick copper bus-bar, attached to the capacitors, maximises the power transmission. The huge capacitors and bus-bar combined ensure clean and smooth power delivery at all times, even during sudden surges and continuous high volume demands.

* VSX-AX5Ai: 27,000µF

## ADVANCED PROCESSING IN THE DIGITAL DOMAIN

**▮ Enhanced SACD sound quality** (VSA-AX10Ai, VSX-AX5Ai, VSX-2014i)

Pioneer has incorporated two new features to ensure that sound from your SACD sources is as true to the original as possible. In order to make the conversion from 2-channel DSD to PCM, a sampling frequency of 176.4 kHz/32-bit is used. The resulting signal is virtually indistinguishable from the original. For multi-channel SACD, the sampling frequency is 88.2 kHz. SACD reproduction now also benefits from the new alternative SACD gain setting. The gain in the digital domain (for SACD) is increased by 6 dB, resulting in a higher dynamic range.

**▮ New Ultra Digital Core Engine for more powerful signal processing** (VSA-AX10Ai)

The VSA-AX10Ai-S uses twin 32-bit floating-point processors SHARC Melody Ultra and 48-bit processing Motorola DSP engines, such as those widely used in pro audio equipment. Pioneer engineers created the most advanced digital processing module, the Ultra Digital Core Engine, optimised for the DSPs. It features a short signal path thanks to the latest 6-layered circuitry board design and an exclusive processing algorithm. The Ultra Digital Core Engine processes the data with extreme precision, and delivers more powerful multi-channel sound decoding and processing than ever before. This engine can handle all the latest surround formats, and makes high-definition-quality 96 kHz/24-bit processing possible for Dolby Pro Logic IIx, THX and DTS NEO:6.

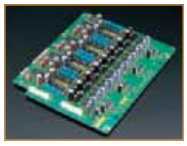
Ultra Digital Core Engine

**▮ All-channel 192 kHz/24-bit A/D converters for precise analogue source reproduction** (VSA-AX10Ai)

Pioneer has mounted highly accurate 192 kHz/24-bit A/D converters on all eight channels individually to precisely reproduce DVD-Audio and SACD sound sources when using players with 6-channel analogue outputs. For two-channel analogue sources, four A/D converters are used for each channel for further precise conversion. This ensures truly superb 2-channel stereo reproduction. Of course, bypassing all A/D, DSP and subsequent D/A conversion by directly routeing the analogue input to the power amplifier is equally possible.

**▮ High-end 192 kHz/24-bit D/A converters for solid sound** (VSA-AX10Ai, VSX-AX5Ai, VSX-2014i, VSX-1014, VSX-D814, VSX-D714, VSX-D514)

Exclusive for Pioneer, specially selected top-of-the-line Burr-Brown 192 kHz/24-bit digital-to-analogue converters drive each of the eight channels independently. Sound is accurately reproduced, true to the original signal, with a remarkable signal-to-noise ratio. These are the best multi-bit type D/A converters for high resolution, strong and stable sound, with a perfect signal from input to output. The VSX-AX5Ai-S, VSX-2014i-S and VSX-1014-S/K feature high-quality Delta Sigma-type D/A converters with low jitter design, realised through Pioneer's unique Switched Capacitor Filter.



Burr-Brown PCM1704 DAC

**▮ WORLD'S FIRST WINDOWS MEDIA™ AUDIO 9 PROFESSIONAL** (VSA-AX10Ai)

It's no understatement that the VSA-AX10Ai-S is completely up-to-the-minute with the latest surround formats. This amplifier is the first in the world to incorporate a WMA9 Pro decoder, the first digital surround sound coding technology for the Web — developed by Microsoft. When connected to a multi-channel-equipped PC, you are able to enjoy high resolution stereo or 5.1-channel surround audio at 128 k – 768 Kbps compression rates. At any given bit rate, 5-channel WMA9 Pro will bring you higher fidelity than other sound compression algorithms thanks to the latest audio codec technology.

## PRECISE SOUND REPRODUCTION WITH MCACC

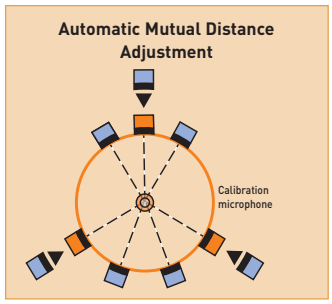
With Pioneer's Multi-Channel Acoustic Calibration system (MCACC) — an automatic sound field adjustment system — you are able to automatically or manually precision-tune your home system to your living room just like a sound professional, but with minimum effort. Now Pioneer introduces Advanced MCACC, for even more accurate sound calibration. What you get is fine-tuned audio personalised for your home — heard exactly the way the recording engineers intended. Specific MCACC features are detailed below.

### ▮ Automatic Surround Setup (VSA-AX10Ai, VSX-AX5Ai, VSX-2014i, VSX-1014, VSX-D814)

Setup microphone for VSA-AX10Ai-S

It has never been easier to set up your system, and at the same time, recreate the perfect listening environment. Hooked up with the (included) setup microphone, the system automatically confirms speaker presence and speaker size. Next the amplifier emits a series of test tones which enables MCACC to automatically adjust the speaker distance (channel delay), channel level and frequency balance with Pioneer's exclusive 'Envelope Calibration Method'. This method equalises the speakers for your room and adjusts frequency response — ignoring steep peaks and dips — for a smoother sound stage.
VSA-AX10Ai-S features a 9-band digital equaliser*, which gives the best result with the 'Envelope Calibration Method'. There are two modes for adjusting the frequency balance between speakers: 'All Channel Adjust' mode flattens the frequency response for all speakers and 'Front Channel Align' mode synchronises other speakers to the front speakers. Two 'Custom' user memories are available to memorise manual settings. With these professional level calibrations, MCACC produces a true three-dimensional sound field.

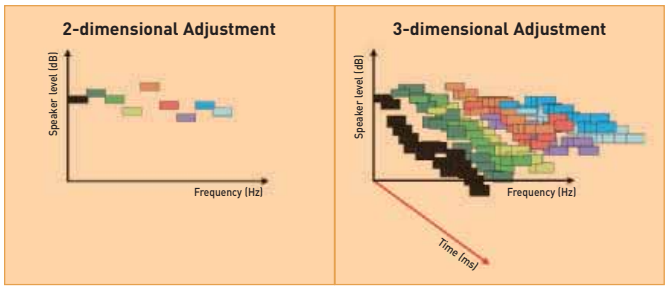
* 5-band equaliser: VSX-AX5Ai-S, VSX-2014i-S and VSX-1014-S/K




The speaker distance, trim level and tone are not uniform before adjustment. After adjustment, the system is automatically equalised.

### ▮ Automatic Frequency Response Alignment with new 3-D Calibration method (VSA-AX10Ai, VSX-AX5Ai)

Advanced MCACC features a newly developed, patent-pending 3-D Calibration method. It enables even more precise measurements, as the 3-D Calibration method takes reverberation — the time factor or third axis — into account, as well as existing frequency and level readings at each band. The 3-D Calibration method calibrates the frequency balance mainly based on the direct sound (caused by obstacles in the room or room characteristics) rather than indirect sound (tonal balance, sound image, etc.), since we perceive sonic information much more on direct sound. This method makes it possible to achieve measurements closer to the direct sound, such as how we actually hear it.



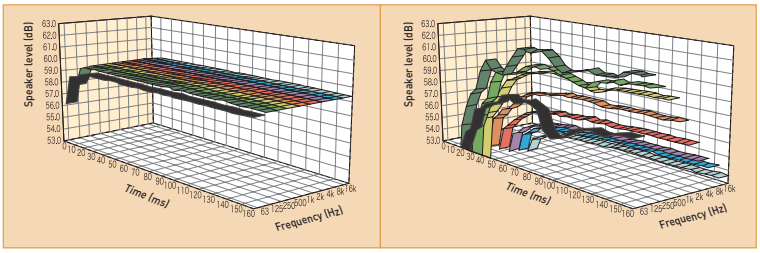

Standard MCACC (2-D Calibration): only frequency and level are measured

Advanced MCACC (3-D Calibration): frequency, level and timing are taken into account

### ▮ Room reverberation status output (VSA-AX10Ai, VSX-AX5Ai)

RS-232C terminal on back panel

You can see the reverberation characteristics either on-screen (OSD) in a simple 2-D image or even a 3-D colour graphic image on PC displays, by connecting a RS-232C cable (not included) to your PC, and downloading software from the Pioneer website. This is a useful tool to visualise proper settings for your specific environment.

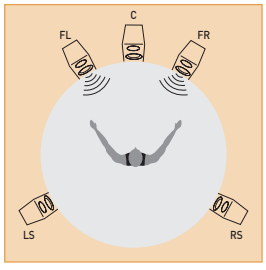



Example of a room with no reverberation — nonexistent in a home environment

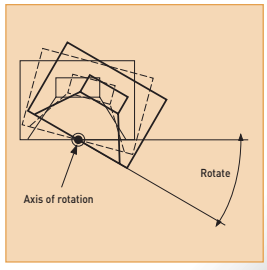
Example of a room with a large amount of reverberation

### ▮ Precise Speaker Setting Alignment (VSA-AX10Ai)

The VSA-AX10Ai-S includes an additional tool, a Reference Calibration Disc (included with the amplifier), to calibrate the physical speaker positions even more precisely. This special DVD-Video disc contains two types of signals in DTS format: one for fine speaker distance adjustment and one for fine speaker angle adjustment. These two adjustments work perfectly with MCACC for the best possible sound stage in a room.




Fine adjustment of speaker distance




Adjust speaker direction

### ▮ 'X-curve' adjustment*: Automatic correction for room size (VSA-AX10Ai)

Advanced MCACC includes an additional automatic adjustment to ensure that the sound reproduction is even more perfectly matched to your room — the correction for room size. Our perception of a flat frequency response changes depending on our distance between the sound source, i.e. the size of the room. High frequencies decrease more for larger rooms. The VSA-AX10Ai-S automatically compensates for this difference by applying the famous 'X-Curve', according to room size. 'X-Curve' is widely used in acoustic designing for film theatres and dubbing stages. You will hear the sound as it should be heard.

* X-curve is authorised as an international standard, ISO 2969.

For more details on features and technology, please visit www.pioneer.co.uk

## AIR STUDIOS SOUND TUNING (VSA-AX10Ai, VSX-AX5Ai)

The best sound engineers at one of the best recording studios in the world contributed an unquestionable amount of expertise to Pioneer's latest revolutionary multi-channel stereophonic amplifier/receivers. AIR Studios founder is Sir George Martin, legendary Beatles producer and Academy Award-nominated composer — one of music's most versatile and imaginative talents. Established in 1969 in London, AIR Studios is now a state-of-the-art recording complex with matchless facilities for film scoring, rock, pop, classical and orchestral work, postproduction and live events. Many of the world's most popular and renowned musical talents have worked in this unique and inspirational recording environment.

## SLEEK-DESIGNED LARGE TOUCH PANEL REMOTE CONTROL (VSA-AX10Ai)

VSA-AX10Ai-S comes with newly designed touch panel remote control. This remote control is exceptionally thin on account of the special built-in rechargeable battery. Thanks to a large LCD touch panel and a wide variety of preset codes with learning capability, the operation is simpler and smoother than ever before.

Large touch panel remote control

Close-up of touch panel

## VERSATILE SPEAKER CONFIGURATIONS

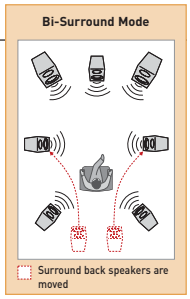
**Bi-Amp mode** (VSA-AX10Ai, VSX-AX5Ai, VSX-2014i, VSX-1014)

In Bi-Amp mode, these models have the capability to use a separate amplifier for the high frequency driver and the low frequency driver of the front pair of speakers, for better crossover performance. The speakers must be bi-ampable to do this — equipped with separate terminals for high and low. In Bi-Amp mode, both the front and the surround back speaker terminals* of the amplifier/receiver will be used to drive the front speakers.

* VSA-AX10Ai-S: B speaker terminal.

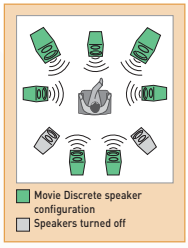
**Bi-Surround mode** (VSA-AX10Ai)

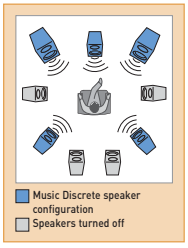
Rectangle-shaped rooms pose a particular audio challenge, as the audio must cover a much longer area from front to back. Bi-Surround mode addresses this problem. Two sets of surround speakers are driven by different amplifiers; two of these are switched from surround back amplifiers. So the sound envelops the whole area of the room in dramatic surround sound.



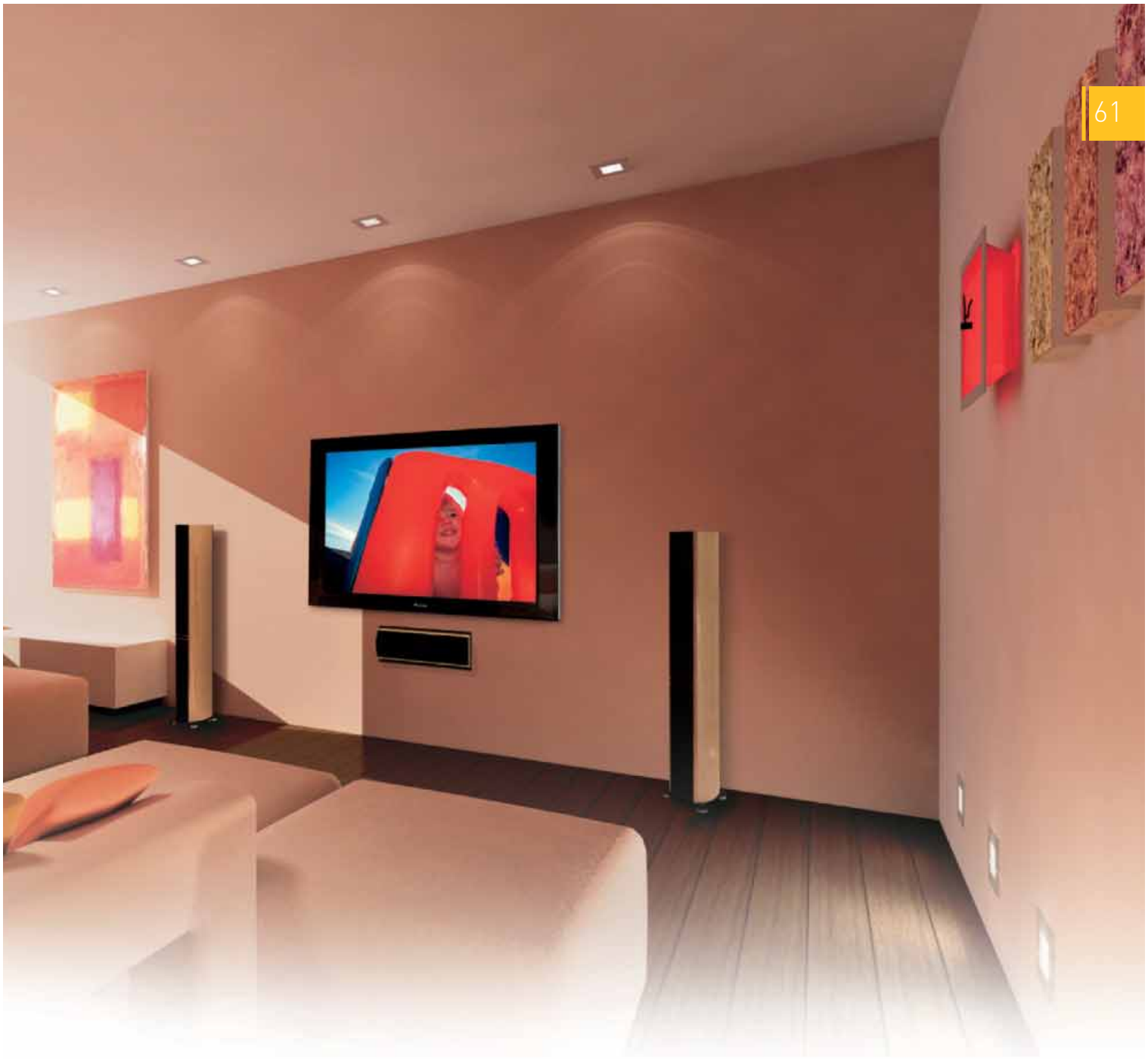

**Music/Movie Discrete speaker configuration ready** (VSA-AX10Ai)

The latest multi-channel music recordings require an ITU-R standard speaker setting for monitoring, whereas movie soundtracks are monitored with a diffused speaker setting. For the ultimate performance of both movies and music — and if you can set 9 speakers — the Music/Movie Discrete speaker configuration feature is an extremely convenient solution. It enables you to easily switch between movie speaker setting and music speaker setting, just by switching between speaker setting A and B as needed. There's no need to reposition and reconnect the speakers each time you want to enjoy multi-channel sound from either movie or DVD-Audio/SACD sources in their purest forms.



# HOME CINEMA SPEAKERS



Imagine luxurious cinematic surround sound, right in your own home. That's exactly what you get with Pioneer's home cinema speaker sets. Top quality sound from truly high performance speakers. They're not only a joy to listen to, but a pleasure to look at. From elegant floor-standing speakers, to the chic, compact satellite speakers and the newly-designed subwoofers, each creates its own distinct style statement. Crafted from only the very best materials, real aluminium and real beech veneer complete the look. Prefer ultra-modern or classic? Sleek or statuesque? You'll find exactly what you want. Pioneer's speaker packages are designed and engineered in France, with a background of more than fifty years of experience in acoustic research. You can even enjoy great surround sound on your own with Pioneer's ingenious digital wireless headphones with Dolby's Headphone technology. Whether you're one or many, let Pioneer transport you to sonic heaven — in grand style.

# HOME CINEMA SPEAKERS

**Front 130 W Max.**
**Rear & Centre 130 W Max.**
**Subwoofer 250 W RMS**

## S-V810A Home Cinema Speaker Set

NEW

- Attractively finished in real beech veneer, the S-V810A blends in harmoniously with any interior
- The S-V810A set consists of two floor-standing front speakers (S-H810V), a centre speaker (S-C80), two rear speakers (S-F80), and an active subwoofer (S-W250S)
- This magnetically shielded speaker set creates brilliant DVD-Audio and SACD sound, thanks to its wide frequency range — up to 100 kHz for the front speakers and 50 kHz for centre and rear speakers
- Achieve a versatile audio performance, well suited for home cinema surround sound, as well as a superb stereo sound from 2-channel sources, thanks to the 130 W 4-way front speakers' deep, rich bass reproduction
- Obtain quality deep bass sound reproduction thanks to the active subwoofer (S-W250S). It has an exceptional acoustic design, with a D-class amplifier separated from the acoustic cabinet, a 30 cm cone woofer and a 30 cm cone passive radiator. Its real beech veneer finish matches the front, centre and rear speakers.
- This speaker set is recommended to be combined with DVD Audio and SACD compatible receivers and players

Detail S-W250S subwoofer

Control panel behind the front door flap of the S-W250S subwoofer

Detail back of front floor-standing speaker

For more details on features and technology, please visit www.pioneer.co.uk

## S-V80A Home Cinema Speaker Set

NEW

**Front 130 W Max.**
**Rear & Centre 130 W Max.**
**Subwoofer 250 W RMS**

- Attractively finished in real beech veneer, the sturdily-designed S-V80A blends in harmoniously with any interior
- The S-V80A consists of 2 pairs of 130 W front and rear speakers (S-F80), a 130 W centre speaker (S-C80) and the matching 250 W RMS active subwoofer (S-W250S)
- Multi-purpose, this speaker set produces the wide frequency range required (up to 50 kHz for S-C80 and S-F80) for accurate DVD-Audio and SACD reproduction
- Experience exciting home cinema surround as well as crisp 2-channel stereo sound with this magnetically shielded package
- Obtain quality deep bass sound reproduction thanks to the active subwoofer (S-W250S). It has an exceptional acoustic design, with a D-class amplifier separated from the acoustic cabinet, a 30 cm cone woofer and a 30 cm cone passive radiator. Its real beech veneer finish matches the front, centre and rear speakers.
- This speaker set is recommended to be combined with DVD Audio and SACD compatible receivers and players

## S-C80 Centre Speaker

**130 W Max.**

Detail back of S-C80

- Enjoy crisp dialogue from your favourite movies with this stylish 130 W 3-way centre speaker
- Enhance your interior, with the clean lines of the S-C80, attractively finished in real beech veneer

For full features and specifications, please see pages 92 — 93.

# HOME CINEMA SPEAKERS

## S-V710-III Home Cinema Speaker Set

**Front 130 W Max.**
**Rear & Centre 130 W Max.**
**Subwoofer 150 W RMS**

- Enhance your audio-visual entertainment experience, as well as your interior with this majestic home cinema set
- It comprises two floor-standing front speakers (S-H710V), centre and rear satellite speakers (S-ST70-CR) and a 150 W active subwoofer (S-W150S-K)
- The design features natural elements, like an aluminium cabinet, wood front panel and zinc for the top and base of the floor-standing speakers
- This versatile speaker package includes three different coloured grilles — black, burgundy and white — so you can change the look of the satellite speakers to fit your interior or your mood
- All speakers in this package pack up to 130 W max. power each, and are magnetically shielded for video use

S-V710-III with white grille

S-V710-III with burgundy grille

S-V710-III with black grille

## S-V70-III Home Cinema Speaker Set

**Satellite 130 W Max.**
**Subwoofer 150 W RMS**

- Create a futuristic-looking home cinema system with this ultra-modern 2-way speaker set
- It comprises front satellite speakers (S-ST70-F), centre and rear satellite speakers (S-ST70-CR) and a powerful subwoofer (S-W150S-K)
- Create powerful cinema sound with these five space-saving 130 W satellite speakers and the 150 W RMS active subwoofer
- This versatile speaker package includes three different coloured grilles — black, burgundy and white — so you can change the look of the central and satellite speakers to fit your interior or your mood
- All speakers in this package are magnetically shielded for video use

S-V70-III with black grille

S-V70-III with white grille

S-V70-III with burgundy grille

For more details on features and technology, please visit www.pioneer.co.uk

## S-V610 Home Cinema Speaker Set

NEW

**Front 100 W Max.**
**Rear & Centre 100 W Max.**
**Subwoofer 120 W RMS**

- Enhance your cinematic sound experience, as well as your interior with this speaker set
- Consists of: S-H610V (2-way front tallboy speakers), the S-C60 and S-F60 (2-way centre + rear satellite speakers), and the S-W110S-K active subwoofer
- The two tall-boy-type speakers have an ultramodern ring-shaped base, and a real aluminium body
- The centre speaker also has an ultramodern ring-shaped base, and both the centre- and rear satellite speakers have matching real aluminium bodies
- All speakers in this package pack up to 100 W max. power each, and are magnetically shielded for video use

## S-V60 Home Cinema Speaker Set

NEW

**Front & Rear 100 W Max.**
**Centre 100 W Max.**
**Subwoofer 120 W RMS**

- This system consists of the S-F60 front and rear speakers, the S-C60 centre speaker and the S-W110S-K active subwoofer
- Get great surround sound with 4 bookshelf-type satellite speakers, and a centre speaker in a matching design, both with an aluminium body and up to 100 W maximum power
- The centre speaker has an ultra-modern ring shaped based
- All speakers in this package are magnetically-shielded for video use

For full features and specifications, please see pages 92 — 93.

# HOME CINEMA SPEAKERS

## S-VLF5 Home Cinema Speaker Set

**Satellite 130 W Max.**
**Subwoofer 150 W RMS**

S-LF5
satellite speaker
with white grille

S-LF5
satellite speaker
without grille

- The S-VLF5 satellite system is crafted in natural wood tones
- This smart and modern speaker package is crafted from attractive natural materials — aluminium, zinc and 100% pure wood — which also provides strength to the cabinet for pure and accurate sound reproduction
- It comprises 2 front speakers (S-LF5-F), 1 centre, and 2 rear speakers (S-LF5-CR) all with the matching light wood and aluminium tone
- The S-W150S active subwoofer, with its 150 W RMS total output power complements the satellite speakers with its natural light wood tone
- This versatile speaker package includes two different coloured cloth grilles (black and white) for a softer touch within a more traditional setting
- This speaker set has a flat design, making it ideal for wall placement
- All speakers in this package pack up to 130 W of max. power each, and are magnetically-shielded for video use

## S-VLF3 Home Cinema Speaker Set

**Satellite 130 W Max.**
**Subwoofer 120 W RMS**

S-LF3 satellite
speaker
with white grille

S-LF3 satellite
speaker
without grille

- Save space with style: This easy-to-mount super-slim 2-way satellite speaker set has ultra-thin panels with flat woofers which also match the Pioneer Plasma TV
- This hyper-thin speaker set, finished in real aluminium consists of front satellite speakers (S-LF3-F), centre and rear satellite speakers (S-LF3-CR), as well as the S-W110S-K active subwoofer in black with its 120 W RMS of total output power
- Suit your own tastes, and choose between a black or white speaker grille
- The S-VLF3 speaker package includes stylish speaker stands, for placing the speakers on a table or shelf
- All speakers in this package pack up to 130 W of max. power each, and are magnetically-shielded for video use

## S-V50-G/S-V50N-K

NEW

### Home Cinema Speaker Set

**Satellite 100 W Max.**
**Subwoofer 85 W RMS**

S-V50-G

S-V50N-K

- Enhance your décor with the cool silver tones of this 100 W compact satellite speaker package, which is also available in the more classic black with a silver touch
- Comprises: matching front, centre and rear satellite speakers (S-SP50-G/K), and matching 85 W square-type active subwoofer (S-W90S)
- The S-W90S subwoofer in this combination has a simple design, with pure lines in striking matt-black and silver
- All speakers in this package are magnetically-shielded for video use

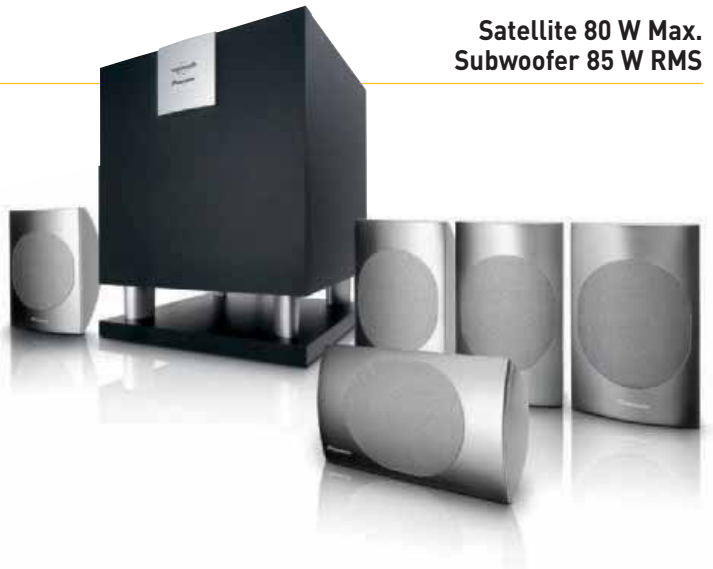
## S-V42

NEW

### Home Cinema Speaker Set

**Satellite 80 W Max.**
**Subwoofer 85 W RMS**

- This winning speaker combination finished in real aluminium is both tasteful and modern in design
- It comprises 5 small S-SP42 satellite speakers in subtle silver and the S-W90S active subwoofer
- The square-type 85 W subwoofer in this combination has a simple design, with pure lines in striking matt-black and silver
- All speakers in this package pack up to 80 W of max. power each, and are magnetically-shielded for video use



## S-V59-II

### Home Cinema Speaker Set

**Satellite 100 W Max.**
**Subwoofer 120 W RMS**

- Enhance your interior with these five stylishly compact satellite speakers with 100 W of output power
- The S-V59-II combines the S-F59 (front satellite speakers) and S-CR59 (centre and rear satellite speakers) with the S-W110S-K (active subwoofer)
- Ideal match for the high performance 120 W RMS subwoofer with built-in amplifier
- All speakers in this package pack up to 100 W of max. power each, and are magnetically-shielded for video use

For full features and specifications, please see pages 92 — 93.

# HOME CINEMA SPEAKERS

## S-V510

Home Cinema Speaker Set

**100 W Max.**

- Let the sound swirl around you from three powerful cone woofers in these stylish floor-standing front speakers
- Enhance your cinematic surround sound experience with the centre and rear satellite speakers
- The complete S-V510 speaker system consists of floor-standing front speakers (S-H510V) combined with the centre and rear satellite speakers (S-CR59)
- All speakers in this package pack up to 100 W of max. power each, and are magnetically shielded for video use

## S-V410

NEW

Home Cinema Speaker Set

**Front, Rear & Centre 100 W Max.**
**Subwoofer 85 W RMS**

- This elegant and statuesque two-way speaker system is finished in real aluminium
- Get brilliant audio from the stylish S-V410, consisting of 4 tall-boy front and rear speakers with a matching slim-design centre speaker (S-SP410)
- The square-type 85 W subwoofer (S-W90S) in this combination has a simple design, with pure lines in striking matt-black and silver
- All speakers in this package pack up to 100 W of max. power each, and are magnetically shielded for video use

## S-V310-QL

Home Cinema Speaker Set

**Front 100 W Max.**
**Rear & Centre 80 W Max.**

- Enjoy a captivating sound sensation with this stylish magnetically shielded speaker package designed in a natural, light oak
- This sturdy system comprises 2 floor-standing front speakers (S-H310V-QL) and centre and rear satellite speakers (S-CR32-QL)
- The front speakers in this package pack up to 100 W of max. power each, and the rear and centre speakers 80 W of max. power

For more details on features and technology, please visit www.pioneer.co.uk

## S-V32A-QL/S-V32A-W Home Cinema Speaker Set

NEW

**Satellite 80 W Max.**
**Subwoofer 85 W RMS**

S-V32A-QL

S-V32A-W

- Brighten up your interior with this set of 5 satellite speakers in a classic light-wooden design
- This set comprises centre and rear speakers (S-SP32-QL), and a square-type active subwoofer (S-W90S)
- The matt-black square-type subwoofer included in this package has elegant silver feet and offers 85 W maximum power
- The centre and rear speakers (S-SP32-QL) output up to 80 W maximum power
- This elegant speaker set is also available with a finish in a warmer, more classic dark wood effect
- The front and centre speakers in this package are magnetically-shielded for video use

## S-V230A-QL/S-V230A-W Home Cinema Speaker Set

**Front 80 W Max.**
**Rear & Centre 80 W Max.**

- With a choice of wood tones in a light design (S-V230A-QL) or a warmer dark wood (S-V230A-W) combined with black detailing, this tall-boy speaker set blends in well with any modern interior
- It comprises two impressive 3-way tall-boy speakers (S-H230VA-QL/W) and centre and rear speakers (S-CR32-QL/W), each with a stylish black grille
- The classic and elegantly-designed matching centre and rear satellite speakers, can be wall-mounted, set on a shelf, or placed on an optional speaker stand
- All speakers in this package pack up to 80 W max. power each, and front and centre speakers are magnetically-shielded for video use

S-V230A-QL

S-V230A-W

For full features and specifications, please see pages 92 — 93.

# HOME CINEMA SPEAKERS

## S-W250S Active Subwoofer 250 W RMS

NEW

- The S-W250S has a clean wooden design, made of real beech veneer, which harmonises with most living environments as well as with the S-H810V, S-F80 and S-C80
- This powerful 250 W active subwoofer (S-W250S) has an exceptional acoustic design, with a D-class amplifier separated from the acoustic cabinet
- Superbly crafted, this subwoofer boasts a 30 cm cone woofer, a 30 cm cone passive radiator and crossover frequency of 50 — 150 Hz

Details back S-W250S

## S-W150S/S-W150S-K Active Subwoofer 150 W RMS

S-W150S

- This modern light wood-toned 150 watt RMS active subwoofer (S-W150S) is the perfect addition to any home cinema system
- It produces the deepest-of-deep bass possible — for thrilling DVD effects
- This classic subwoofer is also available in a black finish (S-W150S-K)

S-W150S-K

## S-W110S-S/S-W110S-K/S-W110S-QL Active Subwoofer 120 W RMS

- Add a bit of style — and power — to your living environment, with this subwoofer
- No matter what colour you choose, the S-W110S adds the finishing touch to your home cinema experience, with 120 W RMS of intense home cinema sound and deep bass reproduction

S-W110S-K

S-W110S-QL

## S-W90S Active Subwoofer 85 W RMS

NEW

- This square-type 85 W active subwoofer has a simple design, with pure lines and striking colours
- The cabinet and base are in matt-black with a front panel and four silver-finish feet in ABS

For more details on features and technology, please visit www.pioneer.co.uk

## CP-F100 Speaker Stand

- Aluminium design speaker stand
- Perfect companion for S-ST70, S-LF5, S-LF3, S-F60, S-SP50 and S-SP42

## CP-F80 Speaker Stand

- Designed especially for the S-F80 satellite speakers

## CP-F50A Speaker Stand

- Stylish metal-finish speaker stand
- Perfect companion for S-SP50, S-SP42, S-SP32

# ADD-ON EQUIPMENT & ACCESSORIES

## SE-DIR800C Digital Wireless Headphones for Surround Sound

NEW

5.1ch VIRTUAL SURROUND

- Dolby Headphone technology, for impressive surround sound without multiple speakers
- Full digital surround sound from 2-channel to any 5.1-channel source, DVD, digital cable/satellite and game systems
- Dolby Digital, DTS, Dolby Pro Logic II, Dolby Surround compatibility
- Digital infra-red transmission for noiseless and high-quality sound playback
- Compact design transmitter (can be positioned horizontally or vertically)
- Optical/Coaxial/RCA pin jack terminal
- Powerful bass by 40 mm (diameter) driver with rare-earth alloy magnet
- Light-weight and compact headphones
- Volume dial directly on headphones

## HDJ-1000 Professional Headphones

- Stunning ultra-light professional headphones
- Feature 3,500 mW of maximum input allowing for a high sound volume with the best possible clarity
- Both compact folding ear pads have a swivel mechanism allowing the HDJ-1000 to be manipulated into any position
- Plush padding makes it possible to wear the headphones comfortably for hours of listening pleasure

## SE-M380/SE-M280 Headphones

SE-M380

SE-M280

- Enjoy your music in the privacy of your own ears, with these quality headphones
- Two stylish, oval, soft-pad headphones, the silver SE-M380 and the black SE-M280 come equipped with large phones for overwhelming sound in comfort

For full features and specifications, please see pages 92 — 93.

# AUDIO COMPONENTS

Rejuvenate your audio system with the superior sound and design quality of a Pioneer audio component. Whether you are starting from scratch or upgrading your system, Pioneer has just what you need to create a custom-fit sound. Choose from a wide range of CD recorders, MiniDisc recorders, CD players, cassette decks, amplifiers and speakers. For those who love music, it doesn't get any better than this.

## AUDIO RECORDING

Digital discs stand the test of time, every time. With Pioneer CD and MiniDisc recorders, selection, recording, searching and retrieval of tracks is simplicity itself. Mix all your favourite tunes, even from analogue sources, in whatever order you like. Any way you play it, you win.

### PDR-W839 CD Recorder

- Record from one to three CDs onto your own personalised CD
- 'Rec This' button for automatic recording
- Fast record thanks to the improved 2 x finalisation process and double speed dubbing
- Create and edit personalised CD Text via the front panel input connection for a keyboard

### PDR-609 CD Recorder

- Enjoy fine quality CD recording and playback thanks to a 24-bit A/D converter and Legato Link Conversion
- Fast record thanks to the 2 x finalisation process
- Enjoy easy vinyl or cassette recording with automatic level adjustment, thanks to analogue sync recording
- Create and edit personalised CD Text via front panel input connection for a keyboard

### MJ-D508 MiniDisc Recorder

- Revel in top-notch MiniDisc recording quality thanks to Pioneer Z-concept and Digital Noise Reduction
- Advanced parameter processing controls ATRAC compressed data, increasing the original music signal information
- Personalise your recordings with convenient editing modes and features like 'name clip' and 'medley playback'

## CD PLAYERS

Compact, convenient and reliable, the appeal of CDs and CD players will never fade away. With standards as high as ever, Pioneer CD players stand out. There are even CD players for filing away up to 301 CDs that can access any track immediately. So there's never an end to your listening pleasure.

### PD-F1009 File-Type CD Player

CDFILE 301-DISC · LEGATO LINK CONVERSION · CD TEXT · SR

- Unique loading roulette rack system and single loader for storage of 301 CDs in a surprisingly compact unit
- Wide selection of listening modes, CD Text and CD-RW playback capability
- Legato Link Conversion for more faithful reproduction of the original sound
- Low power consumption

### PD-F1007 File-Type CD Player

CDFILE 301-DISC · LEGATO LINK CONVERSION · CD TEXT · CD-DECK SYNCHRO · SR

- Unique loading roulette rack system and single loader for storage of 301 CDs in a surprisingly compact unit
- Connect to another 301-CD changer for a grand total of 602 CDs
- Organise your collection with the custom filing system
- Input your CD Text easily via a keyboard or the remote control

### PD-F958 File-Type CD Player

CDFILE 101-DISC · CD TEXT · CD-DECK SYNCHRO · SR

- Store up to 101 CDs in this compact CD player
- Keep your favourite CDs organised using custom filing for up to 3 CD groups
- CD Text capability

### PD-F706 File-Type CD Player

CDFILE 25+1-DISC · CD-DECK SYNCHRO · SR

- This compact unit stores 25 + 1 discs for a full day of audio enjoyment
- Get the perfect mix by programming 24 tracks from 24 different discs

### PD-F607 File-Type CD Player

CDFILE 25-DISC · CD TEXT · SR

- Store 25 discs in this compact player and enjoy your favourite music continuously
- CD Text capability

For full features and specifications, please see pages 94 — 95.

## PD-M603 Multi CD Player*

- Store up to six discs
- Enjoy excellent sound performance with the 1-bit Direct Linear Conversion and high speed and high density pulseflow D/A converter
- Adjust the sound level automatically thanks to the automatic digital level control
- Fast access to any disc with the 6 disc key on the remote

* Only available in the U.K.

## PD-M426 Multi CD Player*

- Store up to six discs in a separate loader
- Anti-resonance and anti-vibrating design for stable sound output
- Pick up listening where you left off with the Last Disc Memory function

* This product is not available in the U.K.

## PD-M406 Multi CD Player*

- Store up to six discs in a separate loader
- Anti-resonance and anti-vibrating design for stable sound output
- Pick up listening where you left off with the Last Disc Memory function

* This product is not available in the U.K.

## PD-S707 CD Player*

- Get perfect digital audio sound thanks to Pioneer's Z-concept
- Anti-resonance and anti-vibrating design for stable sound output
- Comes with the handy Jog Dial for your convenience

* This product is not available in the U.K.

## JD-M300 6-CD Magazine

- Sort your favourite CDs into a separate loader
- For use with the PD-M426*, PD-M406* and PD-M603 Multi Compact Disc players

* These products are not available in the U.K.

For more details on features and technology, please visit www.pioneer.co.uk

## AMPLIFIERS

Power, precision and purity all contribute to a sound's unadulterated impact. Pioneer amplifiers provide it all. Every performance is a clear, distortion-free listening experience. Peak power is pumped out with outstanding efficiency. Extra connections make these powerhouses easy to integrate into any audio system.

### A-607R Integrated Amplifier — 120 W x 2 DIN

SR

- Pump out pure sound with a superb low frequency range and exceptionally low noise
- High-quality Direct Energy MOS FET circuit drives low impedance speakers and delivers clean hi-fi sound throughout the frequency range
- Symmetrical design adds to the perfect stereo sound

### A-509R Integrated Amplifier — 90 W x 2 DIN

SR

- Bring powerful performance to your audio system with this 90 W integrated amplifier
- Enjoy wide frequency response and a pure, natural sound
- Operate as a 2-channel* power amplifier, and drive surround sound back speakers in a 7.1-channel Setup

* When in the Surround Back mode, the A-509R does not accept any remote control signals, including those from the main amplifiers.

### A-307R Integrated Amplifier — 80 W x 2 DIN

SR

- Bring perfect stereo sound to your ears with this 80 W integrated amplifier
- The short signal path assures you can enjoy pure and natural sound

### A-209R Integrated Amplifier — 60 W x 2 DIN

SR

- This 60 W integrated amplifier includes a stabiliser for the transformer and chassis
- A wide linear circuit and short signal path combine for an excellent sound performance

### A-109 Integrated Amplifier — 40 W x 2 DIN

- This 40 W integrated amplifier includes a stabiliser for the transformer and chassis
- The symmetrical design results in excellent stereo imagery

For full features and specifications, please see pages 95 — 97.

# AUDIO COMPONENTS

## CASSETTE DECKS

Your cassette tapes are still around after all of these years... A Pioneer cassette deck will make them sound as good as ever. With up-to-date noise reducing technology, your analogue sources will be enhanced. Low-noise recording and playback means a new lease on life for all your old favourites.

### CT-W806DR Double Cassette Deck

- Experience high performance recording and playback
- The digital processing system assures lower signal deterioration
- Extra features include a digital input, easy ALCA (Automatic Level Control) and TDNS (Tape Duplication Noise Suppression)

### CT-W606DR Double Cassette Deck

- This double cassette deck incorporates Pioneer's advanced digital processing system
- Legato Link pulls every last bit of sound from your cassettes

### CT-W505R Double Cassette Deck*

- This cassette deck features easy ALCA (Automatic Level Control) and TDNS (Tape Duplication Noise Suppression) for deleting bias noise

* This product is not available in the U.K.

### CT-W208R Double Cassette Deck

- This quality double cassette deck is a perfect addition to any audio system

### CT-S250 Single Cassette Deck

- Play your all-time favourite cassettes with this affordable single cassette player

### PL-990 Full Automatic Stereo Turntable

- Full automatic operation: To provide easy hands-off operation
- Low-mass straight tone arm: Highly sensitive and resistant to resonance, track records better
- Precision DC servo motor: Pioneer Stable Hanging Rotor ends spindle wobble for smoother and more accurate platter rotation
- Universal-type cartridge connector
- Phono EQ included
- Dimensions (W x H x D): 420 x 100 x 342 mm
- Weight: 2.65 kg

# AUDIO SPEAKER SETS

Looking for great audio speakers? Pioneer speakers are number one in terms of performance and versatility. These premium speakers are compatible with all types of systems up to 7.1-channel surround sound. Music has never sounded so pristine.

## S-H810V — Audio Speaker Set — 130 W Max.

- Attractively finished in real beech veneer, the S-H810V blends in harmoniously with any interior
- Achieve a superb stereo environment, thanks to the deep, rich bass reproduction of these 130 W 4-way front speakers
- This magnetically shielded speaker set creates brilliant DVD-Audio and SACD sound with a wide frequency range of up to 100 kHz

Detail back of front floor-standing speaker

## S-F80 — Audio Speaker Set — 130 W Max.

- Attractively finished in real beech veneer, the sturdily-designed S-F80 blends in harmoniously with any interior
- Experience crisp stereo sound from any 2-channel source with these powerful 130 W magnetically-shielded 2-way speakers

Detail back of S-F80

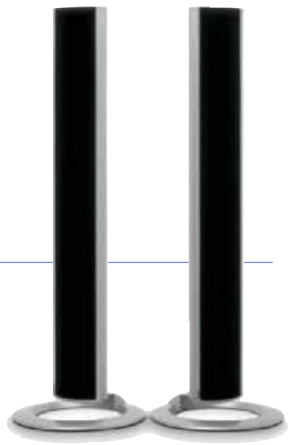
## S-H710V — Audio Speaker Set — 130 W Max.

S-H710V with white and burgundy grille

- Consisting of two woofers, a tweeter and a super-tweeter, this magnetically shielded speaker set creates brilliant DVD-Audio and SACD sound with a wide frequency range
- The design features natural elements, like an aluminium cabinet, wood front panel and zinc for the top, base and centre flange of these floor-standing speakers
- This versatile 130 W speaker package includes three different coloured grilles — black, burgundy and white — so you can change the look of your speakers to fit your interior or your mood
- The S-H710V speaker package is magnetically shielded to prevent interference to TV sets, and can therefore also double as an A/V speaker set

## S-H610V — Audio Speaker Set — 100 W Max.

NEW



- These powerful 2-way 100 W speakers with ultra-modern design and ring-shaped base are sure to make a style statement
- The S-H610V speaker set, fashioned in 100 % aluminium, is magnetically shielded to prevent interference to TV sets, and can therefore also double as an A/V speaker set

For full features and specifications, please see pages 97 — 98.

# AUDIO SPEAKER SETS

## S-H510V Audio Speaker Set — 100 W Max.

- Bring high performance sound to any living space thanks to the elegant, 2-way, 100 W speakers
- These speakers are magnetically shielded to prevent interference to TV sets, and can therefore also double as an A/V speaker set

## S-H310V-QL Audio Speaker Set — 100 W Max.

- Enjoy a captivating sound sensation with this modern and stylish 100 W speaker package designed in a natural, light oak
- The S-H310V-QL package is magnetically shielded and can therefore also serve as an A/V speaker set

## S-H230VA-QL/S-H230VA-W Audio Speaker Set — 80 W Max.

S-H230VA-QL

S-H230VA-W

- With a choice of wood tones in a light design (S-H230A-QL) or a warmer dark wood (S-H230A-W) combined with black detailing, this tall-boy speaker set blends in well with any modern interior
- The S-H230VA-QL/S-H230VA-W brings elegance and 80 W of high performance sound to your living space
- These speakers are magnetically shielded to prevent interference to TV sets, and can therefore also double as an A/V speaker set

## CS-7070 Audio Speaker Set — 190 W Max.

- Enjoy these quality 3-way speakers for 190 W of audio power
- The CS-7070 package is magnetically shielded to prevent interference to TV sets, and can therefore also double as an A/V speaker set

## CS-5070 Audio Speaker Set — 140 W Max.

- Get great surround sound thanks to these 3-way speakers with 140 W of audio power
- These speakers are an excellent choice for any hi-fi system
- The CS-5070 set is magnetically shielded to prevent interference to TV sets, and can therefore also double as an A/V speaker set

## CS-3070 Audio Speaker Set — 120 W Max.

- Opt for these subtle and compact 120 watt, 3-way speakers — a space-saving, quality audio solution
- The CS-3070 set is magnetically shielded to prevent interference to TV sets, and can therefore also double as an A/V speaker set

For more details on features and technology, please visit www.pioneer.co.uk

# AUDIO SYSTEMS

Make a strong, yet delicate, musical statement with a Pioneer audio system. You can be certain that this system sounds as impressive as it looks. Whether you choose warm wooden speakers or eye-catching silver, these exceptional systems are a dream come true.

## NS-11-Q Design Audio System

**30 W x 2 + 50 W RMS**

R·D·S

- Brighten up your interior with this wooden 3-D speaker system with 110 W of total power
- It consists of: a CD tuner, amplifier, a separate display that can be positioned where you want, two satellite speakers, and a subwoofer
- Fit the power amplifier right under the subwoofer for a great look
- This design audio system has slim but strong lines, and the separate blue display adds the perfect design touch

## NS-11-S Design Audio System

**30 W x 2 + 50 W RMS**

R·D·S

- Bring exceptional style into your living space with this sleek silver 3-D speaker system with 110 W of total power and a corresponding subwoofer
- This design audio system features a separate cool blue display and highly addictive touch keys that beep to confirm you've hit them
- It consists of: a CD tuner, a subwoofer for more bass, two satellite speakers, an amplifier and a separate display that can be placed for convenient viewing

## JC-L11 Optional Extension Cord

- This optional 5-metre extension cord is handy — use it when you decide to move the separate display further from the main unit

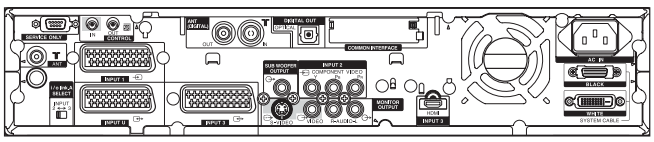
For full features and specifications, please see page 98.

# FEATURES & SPECIFICATIONS

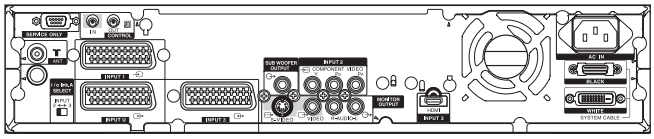
| Plasma TVs Features & Specifications | | PDP-505XDE | PDP-435XDE | PDP-505HDE | PDP-435HDE |
|---|---|---|---|---|---|
| **PICTURE** | | | | | |
| Screen Size | | 50-inch | 43-inch | 50-inch | 43-inch |
| Aspect Ratio | | 16:9 | 16:9 | 16:9 | 16:9 |
| Number of Pixels | | 1,280 (Hor) x 768 (Ver) | 1,024 (Hor) x 768 (Ver) | 1,280 (Hor) x 768 (Ver) | 1,024 (Hor) x 768 (Ver) |
| Brightness | | 1,000 cd/m$^2$ | 1,100 cd/m$^2$ | 1000 cd/m$^2$ | 1,100 cd/m$^2$ |
| Contrast Ratio | | 1,100:1 | 1,200:1 | 1,100:1 | 1,200:1 |
| Viewing Angle | | more than 160° (Hor/Ver) | more than 160° (Hor/Ver) | more than 160° (Hor/Ver) | more than 160° (Hor/Ver) |
| 3 Line Digital Comb Filter | | PAL/NTSC (Main & Sub) | PAL/NTSC (Main & Sub) | PAL/NTSC (Main & Sub) | PAL/NTSC (Main & Sub) |
| Video Signals | | PAL/SECAM/NTSC3.58/NTSC4.43/PAL60/HD/PC | PAL/SECAM/NTSC3.58/NTSC4.43/PAL60/HD/PC | PAL/SECAM/NTSC3.58/NTSC4.43/PAL60/HD/PC | PAL/SECAM/NTSC3.58/NTSC4.43/PAL60/HD/PC |
| PC Signals | | VGA/SVGA/XGA/Wide XGA | VGA/SVGA/XGA/Wide XGA | VGA/SVGA/XGA/Wide XGA | VGA/SVGA/XGA/Wide XGA |
| Picture-in-Picture Display | | • | • | • | • |
| Dual Screen Display | | • | • | • | • |
| Still picture | | • | • | • | • |
| Home Gallery | | • | • | • | • |
| DNR (Digital Noise Reduction) | | • (Off/High/Mid/Low) | • (Off/High/Mid/Low) | • (Off/High/Mid/Low) | • (Off/High/Mid/Low) |
| MPEG NR | | • (Off/High/Mid/Low) | • (Off/High/Mid/Low) | • (Off/High/Mid/Low) | • (Off/High/Mid/Low) |
| Colour Management | | • | • | • | • |
| Natural Enhancer | | • | • | • | • |
| Digital Flicker-free | | • | • | • | • |
| Digital CTI (Colour Transient Improvement) | | • | • | • | • |
| Dynamic Range Expander | | • (Off/High/Mid/Low) | • (Off/High/Mid/Low) | • (Off/High/Mid/Low) | • (Off/High/Mid/Low) |
| Colour Temperature Adjustment | | • (High/Mid-High/Mid/Mid-Low/Low, Manual) | • (High/Mid-High/Mid/Mid-Low/Low, Manual) | • (High/Mid-High/Mid/Mid-Low/Low, Manual) | • (High/Mid-High/Mid/Mid-Low/Low, Manual) |
| PureCinema | | • (Off/Standard/ADV) | • (Off/Standard/ADV) | • (Off/Standard/ADV) | • (Off/Standard/ADV) |
| A/V Selection (Programmed Picture) | | • (STANDARD/DYNAMIC/MOVIE/GAME/USER) | • (STANDARD/DYNAMIC/MOVIE/GAME/USER) | • (STANDARD/DYNAMIC/MOVIE/GAME/USER) | • (STANDARD/DYNAMIC/MOVIE/GAME/USER) |
| **ANALOGUE TUNER** | | | | | |
| Reception System | | PAL BG/I/DK, SECAM BG/DK/L/L' | PAL BG/I/DK, SECAM BG/DK/L/L' | PAL BG/I/DK, SECAM BG/DK/L/L' | PAL BG/I/DK, SECAM BG/DK/L/L' |
| Stereo/Dual Sound | | NICAM UK/SK/FR, CCIR A2 BG/DK | NICAM UK/SK/FR, CCIR A2 BG/DK | NICAM UK/SK/FR, CCIR A2 BG/DK | NICAM UK/SK/FR, CCIR A2 BG/DK |
| Auto Search | | • | • | • | • |
| Auto Programme Labeling | | • | • | • | • |
| Auto Programme Sort | | • | • | • | • |
| Number of Preset Programmes | | 99 | 99 | 99 | 99 |
| Teletext | | CEEFAX/FLOF/TOP (with TOP Over View Page) | CEEFAX/FLOF/TOP (with TOP Over View Page) | CEEFAX/FLOF/TOP (with TOP Over View Page) | CEEFAX/FLOF/TOP (with TOP Over View Page) |
| Number of Languages | | 25 | 25 | 25 | 25 |
| Level 2.5 | | • | • | • | • |
| Page Memory | | 2,100 pages | 2,100 pages | 2,100 pages | 2,100 pages |
| Picture and Text (Dual Screen) | | • | • | • | • |
| EPG | | NexTView | NexTView | NexTView | NexTView |
| **FREEVIEW TUNER** | | | | | |
| System capability | | DVB-T compliant | DVB-T compliant | — | — |
| Modulation | | COFDM (2k/8k) | COFDM (2k/8k) | — | — |
| Demodulation | | QPSK, 16QAM, 64QAM | QPSK, 16QAM, 64QAM | — | — |
| Code rate | | 1/2, 2/3, 3/4, 5/6, 7/8 | 1/2, 2/3, 3/4, 5/6, 7/8 | — | — |
| Guard band | | 1/4, 1/8, 1/16, 1/32 | 1/4, 1/8, 1/16, 1/32 | — | — |
| FEC | | Reed Solomon | Reed Solomon | — | — |
| Modulator output | | VHF CH5-12, UHF CH21-69/PAL BG/I, SECAM DK/L | VHF CH5-12, UHF CH21-69/PAL BG/I, SECAM DK/L | — | — |
| Loop through | | • | • | — | — |
| Video decoding | | MPEG2 MP@ML | MPEG2 MP@ML | — | — |
| Audio decoding | | MPEG1 Layer 1&2 | MPEG1 Layer 1&2 | — | — |
| Digital Teletext (MHEG5) | | • | • | — | — |
| EPG | | • | • | — | — |
| **CONTROL** | | | | | |
| OSD | | High-Quality Font | High-Quality Font | High-Quality Font | High-Quality Font |
| Number of languages | | 12 (GB/D/F/NL/I/E/P/S/FIN/GR/TR/RUS) | 12 (GB/D/F/NL/I/E/P/S/FIN/GR/TR/RUS) | 12 (GB/D/F/NL/I/E/P/S/FIN/GR/TR/RUS) | 12 (GB/D/F/NL/I/E/P/S/FIN/GR/TR/RUS) |
| Remote Control | | SR | SR | SR | SR |
| Energy Save mode (for A/V and PC) | | • (Standard/Save) | • (Standard/Save) | • (Standard/Save) | • (Standard/Save) |
| No Signal Off (for AV) | | • (Disable/Enable) | • (Disable/Enable) | • (Disable/Enable) | • (Disable/Enable) |
| No Operation Off (for AV) | | • (Disable/Enable) | • (Disable/Enable) | • (Disable/Enable) | • (Disable/Enable) |
| Power Management (for PC) | | • (Off/Mode1/Mode2) | • (Off/Mode1/Mode2) | • (Off/Mode1/Mode2) | • (Off/Mode1/Mode2) |
| i/o Link.A | | • | • | • | • |
| SR+ | | • | • | • | • |
| **AUDIO** | | | | | |
| Audio Output Power | | 13 W + 13 W (1 kHz, 10 %, 8 Ω) | 13 W + 13 W (1 kHz, 10 %, 8 Ω) | 13 W + 13 W (1 kHz, 10 %, 8 Ω) | 13 W + 13 W (1 kHz, 10 %, 8 Ω) |
| Tone Control | | Bass, Treble, Balance | Bass, Treble, Balance | Bass, Treble, Balance | Bass, Treble, Balance |
| Surround Sound | | SRS* | SRS* | SRS* | SRS* |
| Audio Orientation | | FOCUS* | FOCUS* | FOCUS* | FOCUS* |
| Bass Boost | | TruBass* | TruBass* | TruBass* | TruBass* |
| **CONNECTION TERMINALS** | | | | | |
| Input 1 (SCART) | | A/V In, RGB In, TV Out | A/V In, RGB In, TV Out | A/V In, RGB In, TV Out | A/V In, RGB In, TV Out |
| Input 2 (SCART/Component) | | A/V In/Out, S-video In, Y'PB'PR' In, i/o Link.A | A/V In/Out, S-video In, Y'Pb'Pr' In, i/o Link.A | A/V In/Out, S-video In, Y'PB'PR' In, i/o Link.A | A/V In/Out, S-video In, Y'PB'PR' In, i/o Link.A |
| Input 3 (SCART/ HDMI) | | A/V In/Out, RGB In, S-video In, i/o Link.A, HDMI In | A/V In/Out, RGB In, S-video In, i/o Link.A, HDMI In | A/V In/Out, RGB In, S-video In, i/o Link.A, HDMI In | A/V In/Out, RGB In, S-video In, i/o Link.A, HDMI In |
| Monitor Out (RCA pin) | | A/V Out, S-video Out | A/V Out, S-video Out | A/V Out, S-video Out | A/V Out, S-video Out |
| Input 4 (Front) | | A/V In, S-video In | A/V In, S-video In | A/V In, S-video In | A/V In, S-video In |
| PC (Front) | | D-sub15 In, Stereo Mini jack (Audio) | D-sub15 In, Stereo Mini jack (Audio) | D-sub15 In, Stereo Mini jack (Audio) | D-sub15 In, Stereo Mini jack (Audio) |
| Headphone (Front) | | Stereo Mini jack | Stereo Mini jack | Stereo Mini jack | Stereo Mini jack |
| Subwoofer Out (Variable) | | RCA pin | RCA pin | RCA pin | RCA pin |
| SR Control In/Out | | Mini Jack x 2 | Mini Jack x 2 | Mini Jack x 2 | Mini Jack x 2 |
| Others | | Antenna terminal (DIN) for ANALOGUE<br>Antenna terminal (DIN) x 2 for DIGITAL<br>i/o Link.A select<br>System Connection x 2<br>(for connecting PDP screen and media receiver)<br>Speaker Out L/R (Display Rear, 8 — 16 Ω)<br>Digital audio out (optical)<br>Common Interface slot | Antenna terminal (DIN) for ANALOGUE<br>Antenna terminal (DIN) x 2 for DIGITAL<br>i/o Link.A select<br>System Connection x 2<br>(for connecting PDP screen and media receiver)<br>Speaker Out L/R (Display Rear, 8 – 16 Ω)<br>Digital audio out (optical)<br>Common Interface slot | Antenna terminal (DIN)<br>i/o Link.A select<br>System Connection x 2<br>(for connecting PDP screen and media receiver)<br>Speaker Out L/R (Display Rear, 8 — 16 Ω) | Antenna terminal (DIN)<br>i/o Link.A select<br>System Connection x 2<br>(for connecting PDP screen and media receiver)<br>Speaker Out L/R (Display Rear, 8 – 16 Ω) |
| **GENERAL** | | | | | |
| Dimensions | (Display) (W x H x D) | 1270 x 737 x 93 mm | 1120 x 652 x 93 mm | 1270 x 737 x 93 mm | 1120 x 652 x 93 mm |
| | (Media Receiver) | 420 x 90 x 295 mm | 420 x 90 x 295 mm | 420 x 90 x 295 mm | 420 x 90 x 295 mm |
| Weight | (Display) | 32.8 kg | 26.8 kg | 32.8 kg | 26.8 kg |
| | (Media Receiver) | 5.6 kg | 5.6 kg | 4.9 kg | 4.9 kg |
| Power Consumption | (Display) in use/standby | 352 W/0.4 W | 295 W/0.4 W | 352 W/0.4 W | 295 W/0.4 W |
| | Media Receiver) in use/standby | 41 W/1.3 W (antenna off) | 41 W/1.3 W (antenna off) | 35 W/0.5 W | 35 W/0.5 W |
| Power Requirements | | AC 220 — 240 V, 50/60 Hz | AC 220 — 240 V, 50/60 Hz | AC 220 — 240 V, 50/60 Hz | AC 220 — 240 V, 50/60 Hz |

* SRS WOW, SRS, SRS FOCUS, SRS TruBass, SRS and (o) symbol are trademarks of SRS Labs, Inc.

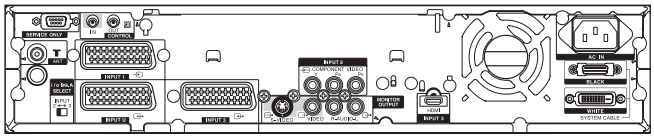
## MEDIA RECEIVERS — BACK PANELS



Rear Panel PDP-R05XE



Rear Panel PDP-R05E



Rear Panel PDP-R05FE

| Plasma TVs Features & Specifications | | PDP-435FDE |
|---|---|---|
| **PICTURE** | | |
| Screen Size | | 43-inch |
| Aspect Ratio | | 16:9 |
| Number of Pixels | | 1,024 (Hor) x 768 (Ver) |
| Brightness | | 1,100 cd/$m^2$ |
| Contrast Ratio | | 1,200:1 |
| Viewing Angle | | more than 160° (Hor/Ver) |
| 3 Line Digital Comb Filter | | PAL/NTSC (Main & Sub) |
| Video Signals | | PAL/SECAM/NTSC3.58/NTSC4.43/PAL60/HD/PC |
| PC Signals | | VGA/SVGA/XGA/Wide XGA |
| Picture-in-Picture Display | | — |
| Dual Screen Display | | — |
| Still picture | | • |
| Home Gallery | | — |
| DNR (Digital Noise Reduction) | | • (Off/High/Mid/Low) |
| MPEG NR | | • (Off/High/Mid/Low) |
| Colour Management | | • |
| Natural Enhancer | | • |
| Digital Flicker-free | | • |
| Digital CTI (Colour Transient Improvement) | | • |
| Dynamic Range Expander | | • (Off/High/Mid/Low) |
| Colour Temperature Adjustment | | • (High/Mid-High/Mid/Mid-Low/Low, Manual) |
| PureCinema | | • (Off/Standard/ADV) |
| Picture memory | | — |
| A/V Selection (Programmed Picture) | | • (STANDARD/DYNAMIC/MOVIE/GAME/USER) |
| **ANALOGUE TUNER** | | |
| Reception System | | PAL BG/I/DK, SECAM BG/DK/L/L' |
| Stereo/Dual Sound | | NICAM UK/SK/FR, CCIR A2 BG/DK |
| Auto Search | | • |
| Auto Programme Labeling | | • |
| Auto Programme Sort | | • |
| Number of Preset Programmes | | 99 |
| Teletext | | CEEFAX/FLOF/TOP (with TOP Over View Page) |
| Number of languages | | 25 |
| Level 2.5 | | • |
| Page Memory | | 2,100 pages |
| Picture and Text (Dual Screen) | | • |
| EPG | | — |
| **CONTROL** | | |
| OSD | | High-Quality Font |
| Number of languages | | 12 (GB/D/F/NL/I/E/P/S/FIN/GR/TR/RUS) |
| Remote Control | | SR |
| Energy Save mode (for A/V and PC) | | • (Standard/Save) |
| No Signal Off (for AV) | | • (Disable/Enable) |
| No Operation Off (for AV) | | • (Disable/Enable) |
| Power Management (for PC) | | • (Off/Mode1/Mode2) |
| i/o Link.A | | • |
| SR+ | | — |
| **AUDIO** | | |
| Audio Output Power | | 13 W + 13 W (1 kHz, 10 %, 8 Ω) |
| Tone Control | | Bass, Treble, Balance |
| Surround Sound | | SRS* |
| Audio Orientation | | FOCUS* |
| Bass Boost | | TruBass* |
| **CONNECTION TERMINALS** | | |
| Input 1 (SCART) | | A/V In, RGB In, TV Out |
| Input 2 (SCART/Component) | | A/V In/Out, S-video In, Y'PB'PR' In, i/o Link.A |
| Input 3 (SCART/ HDMI) | | A/V In/Out, RGB In, S-video In, i/o Link.A, HDMI In |
| Monitor Out (RCA pin) | | A/V Out, S-video Out |
| Input 4 (Front) | | A/V In, S-video In |
| PC (Front) | | — |
| Headphone (Front) | | — |
| Subwoofer Out (Variable) | | — |
| SR Control In/Out | | — |
| Others | | Antenna terminal (DIN)<br>i/o Link.A select<br>System Connection x 2<br>(for connecting PDP screen and media receiver)<br>Speaker Out L/R (Display Rear, 8 – 16 Ω) |
| **GENERAL** | | |
| Dimensions | (Display) (W x H x D) | 1120 x 652 x 93 mm |
| | (Media Receiver) | 420 x 90 x 295 mm |
| Weight | (Display) | 26.8 kg |
| | (Media Receiver) | 4.8 kg |
| Power Consumption | (Display) in use/standby | 295 W/0,4 W |
| | (Media Receiver) in use/standby | 27 W/0,5 W |
| Power Requirements | | AC 220 — 240 V, 50/60 Hz |

* SRS WOW, SRS, SRS FOCUS, SRS TruBass, SRS and (o) symbol are trademarks of SRS Labs, Inc.

| Plasma TVs Features & Specifications | PDP-615EX |
|---|---|
| **PICTURE** | |
| Screen Size | 61-inch |
| Aspect Ratio | 16:9 |
| Number of Pixels | 1365 (Hor) x 768 (Ver) |
| Digital Comb Filter | NTSC: 3D<br>PAL: 3 Line |
| Video Signals | PAL/SECAM/NTSC3.58/NTSC4.43/PAL60 |
| Component | 60Hz: 480i/P,1035i,1080i,720P<br>50Hz: 576i/P, 1080i |
| PC Signals | VGA/SVGA/XGA/SXGA/UXGA/<br>W-XGA/W-SXGA/W-UXGA |
| Picture-in-Picture Display | • |
| Dual Screen Display | • |
| DNR (Digital Noise Reduction) | • (Off/High/Mid/Low) |
| Gamma | • |
| Colour Management | • |
| Colour Temperature Adjustment | • (High/Mid/Mid-Low/Low, Manual) |
| PureCinema | • (Off/On) |
| Picture memory | • |
| A/V Selection (Programmed Picture) | • (STANDARD/DYNAMIC/MOVIE1/MOVIE2/DEFAULT) |
| **CONTROL** | |
| OSD Languages | 7 (GB/D/F/I/E/S/RUS) |
| Remote Controller | • |
| Power Management (for PC) | • (Off/On) |
| Off Timer | • |
| **AUDIO** | |
| Audio Output Power | 9 W + 9 W (6 ohms) |
| Tone Control | Bass, Treble, Balance |
| **CONNECTION TERMINALS** | |
| Video 1 | Composit video In (BNC) |
| Video 2 | Composit video In (RCA pin) |
| Video 3 | S-video In |
| COMPONENT 1 | Y'PB'PR' In (RCA pin x3) |
| PC1 | RGB In (D-sub15) |
| PC2/COMPONENT 2 | RGB,HD,VD/YPbPr In* (BNC x5) |
| HDMI | HDMI In |
| Audio1 | Audio LR In (RCA pin x2) |
| Audio2 | Audio LR In (RCA pin x2) |
| Audio3 | Audio LR In (RCA pin x2) |
| Others | Speaker Out L/R (Display Rear)<br>External control (RS232C, D-sub9) |
| **GENERAL** | |
| Dimensions (W x H x D) | 1502 mm x 912 mm x 126 mm |
| Weight | 68.5 kg |
| Power Consumption | 540 W (1.3 W) |
| Power Requirements | AC 220-240 V, 50/60 Hz |

* RGB,HD,VD In or YPbPr In is selectable on main menu

## PDSP-1 PIONEER DIGITAL SOUND PROJECTOR

Grille standard included

- Dimensions: 963 (W) x 640 (H) x 146 (D) mm
- Weight: 50 kg (including Front Grille)

### Compatible audio input formats

- Digital inputs: PCM (mono/stereo), Dolby Digital, DTS
- Analogue inputs: mono or stereo (converted internally to 24-bit 48 kHz PCM) Optional Dolby Pro Logic II decoding to provide surround sound listening for all analogue and digital stereo sources

### Audio and video inputs

- 1 x digital optical audio input (Input 4)
- 1 x analogue audio input L+R (Input 5)
- 1 x auto-sensing digital optical audio input and analogue L+R audio input (Input 2) Each of these inputs provides associated S-video and composite video switching

### Audio only inputs

- 1 x digital coax audio input (Input 1)
- 1 x digital optical audio input (Input 3)

### Audio outputs

- 2 x subwoofer analogue outputs
- 1 x optical digital S/P-DIF output, which passes the selected digital input (if any)

### Video output

The selected Video Input (if any) is passed to the composite/S-video output, with the on-screen display superimposed on it

### Sound pressure level output

Peak SPL 115 dB at 1 m at 1 kHz

# FEATURES & SPECIFICATIONS

## DVD Recorders Features & Specifications

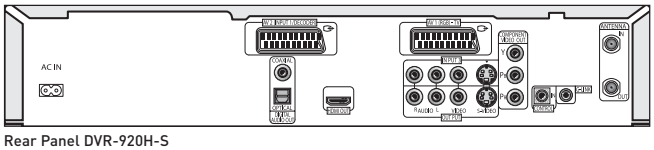
| | DVR-920H-S | | | DVR-720H-S | | | DVR-520H-S | | | DVR-420H-S | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **HDD/DVD** | **HDD** | **DVD** | | **HDD** | **DVD** | | **HDD** | **DVD** | | **HDD** | **DVD** | |
| **Recording Mode (Format)** | | **VR mode** | **Video mode** | | **VR mode** | **Video mode** | | **VR mode** | **Video mode** | | **VR mode** | **Video mode** |
| **Playback** | | | | | | | | | | | | |
| Media | — | DVD-Video/DVD-R/DVD-RW/ CD/SVCD/VCD/CD-R/CD-RW[1] | | — | DVD-Video/DVD-R/DVD-RW/ CD/SVCD/VCD/CD-R/CD-RW[1] | | — | DVD-Video/DVD-R/DVD-RW/ CD/SVCD/VCD/CD-R/CD-RW[1] | | — | DVD-Video/DVD-R/DVD-RW/ CD/SVCD/VCD/CD-R/CD-RW[1] | |
| WMA[2]/MP3[3]/ JPEG file[4] recorded on CD-R/CD-RW[5] | — | Yes | | — | Yes | | — | Yes | | — | Yes | |
| Advanced Disc Navigator (DiscNavi) | Yes | Yes | Yes (before finalisation) | Yes | Yes | Yes (before finalisation) | Yes | Yes | Yes (before finalisation) | Yes | Yes | Yes (before finalisation) |
| Seamless Playback | Yes | Yes | — | Yes | Yes | — | Yes | Yes | — | Yes | Yes | — |
| CM Skip (Commercial Skip) | | Yes | | | Yes | | | Yes | | | Yes | |
| CM Back (Commercial Back) | | Yes | | | Yes | | | Yes | | | Yes | |
| Chase Playback, Playback with Recording | Yes | Yes[6] | — | Yes | Yes[6] | — | Yes | Yes[6] | — | Yes | Yes[6] | — |
| 1.5x view (scan1)[7] | | Yes | | | Yes | | | Yes | | | Yes | |
| **Recording** | | | | | | | | | | | | |
| Media | | | | | | | | | | | | |
| DVD-R | — | — | Yes | — | — | Yes | — | — | Yes | — | — | Yes |
| DVD-RW | — | Yes | Yes | — | Yes | Yes | — | Yes | Yes | — | Yes | Yes |
| Hard Disk Drive (HDD) | 250 GB | — | | 160 GB | — | | 80 GB | — | | 80 GB | — | |
| PAL/NTSC | Yes/Yes | Yes/Yes | | Yes/Yes | Yes/Yes | | Yes/Yes | Yes/Yes | | Yes/Yes | Yes/Yes | |
| Recording Mode: Max. Recording Time | FINE: +/- 54hours SP: +/- 108 hours LP: +/- 216 hours EP: +/- 324 hours SLP: +/- 433 hours MN: +/- 54 — 433 hrs (32 steps) Max recording time per title: 480 min | FINE: +/- 1 hour SP: +/- 2 hours LP: +/- 4 hours EP: +/- 6 hours SLP: +/- 8 hours MN: +/- 1 — 8 hrs (32 steps) | | FINE: +/- 34 hours SP: +/- 68 hours LP: +/- 136 hours EP: +/- 204 hours MN: +/- 34 — 204 hrs (32 steps) Max recording time per title: 360 min | FINE: +/- 1 hour SP: +/- 2 hours LP: +/- 4 hours EP: +/- 6 hours MN: +/- 1 — 6 hrs (32 steps) | | FINE: +/- 17 hours SP: +/- 34 hours LP: +/- 68 hours EP: +/- 102 hours MN: +/- 17 — 102 hrs (32 steps) Max recording time per title: 360 min | FINE: +/- 1 hour SP: +/- 2 hours LP: +/- 4 hours EP: +/- 6 hours MN: +/- 1 — 6 hrs (32 steps) | | FINE: +/- 17 hours SP: +/- 34 hours LP: +/- 68 hours EP: +/- 102 hours MN: +/- 17 — 102 hrs (32 steps) Max recording time per title: 360 min | FINE: +/- 1 hour SP: +/- 2 hours LP: +/- 4 hours EP: +/- 6 hours MN: +/- 1 — 6 hrs (32 steps) | |
| Variable Bit Rate Recording | | Yes | | | Yes | | | Yes | | | Yes | |
| Easy Timer | | Yes | | | Yes | | | Yes | | | Yes | |
| EPG (GUIDE Plus+™) | | Yes | | | — | | | — | | | — | |
| VIDEO Plus+™ | | Yes | | | Yes | | | Yes | | | Yes | |
| VPS/PDC | | Yes/Yes (8 Programmes) | | | Yes/Yes (8 programmes) | | | Yes/Yes (8 programmes) | | | Yes/Yes (8 programmes) | |
| Auto Start Recording | Yes | — | | Yes | — | | Yes | — | | Yes | — | |
| One Touch Recording | | Yes | | | Yes | | | Yes | | | Yes | |
| Direct TV Recording | | Yes | | | Yes | | | Yes | | | Yes | |
| Number of events | | 32/month | | | 32/month | | | 32/month | | | 32/month | |
| Linear PCM Recording (Audio) | | Yes (FINE, MN32) | | | Yes (FINE, MN32) | | | Yes (FINE, MN32) | | | Yes (FINE, MN32) | |
| **Editing** | | | | | | | | | | | | |
| Input Disc Name/Title Name | No/Yes | Yes/Yes | | No/Yes | Yes/Yes | | No/Yes | Yes/Yes | | No/Yes | Yes/Yes | |
| Easy Title Input (like Mobile Phone) | | Yes | | | Yes | | | Yes | | | Yes | |
| Wall paper samples (Title Menu) | — | — | Yes (Finalization) | — | — | Yes (Finalisation) | — | — | Yes (Finalisation) | — | — | Yes (Finalisation) |
| Erase Title | Yes | Yes | Yes[8] | Yes | Yes | Yes[8] | Yes | Yes | Yes[8] | Yes | Yes | Yes[8] |
| Erase Chapter | Yes | Yes | — | Yes | Yes | — | Yes | Yes | — | Yes | Yes | — |
| Erase Section | Yes | Yes | — | Yes | Yes | — | Yes | Yes | — | Yes | Yes | — |
| Play List | — | Yes | — | — | Yes | — | — | Yes | — | — | Yes | — |
| Accuracy | Frame[9] | Frame | Title | Frame[9] | Frame | Title | Frame[9] | Frame | Title | Frame[9] | Frame | Title |
| Chapter Mark | Yes | Yes | 10 min/15 min/ No Separation | Yes | Yes | 10 min/15 min/ No separation | Yes | Yes | 10 min/15 min/ No separation | Yes | Yes | 10 min/15 min/ No separation |
| Undo | — | Yes | | — | Yes | | — | Yes | | — | Yes | |
| **Picture Quality** | | | | | | | | | | | | |
| 5-Line Comb Filter Y/C Separation | | Yes | | | — | | | — | | | — | |
| PureCinema Progressive Scan (for PAL) | | Yes | | | — | | | — | | | — | |
| Digital Noise Reduction | | Component Frame DNR PRO | | | Component Frame DNR | | | Component Frame DNR | | | Component Frame DNR | |
| Video DAC | | 14-bit/108 MHz | | | 10-bit/54 MHz | | | 10-bit/54 MHz | | | 10-bit/54 MHz | |
| Digital TBC | | Yes | | | Yes | | | Yes | | | Yes | |
| Picture Creation | | Yes | | | Yes | | | Yes | | | Yes | |
| **HDD Function** | | | | | | | | | | | | |
| Group | Yes | | | Yes | | | Yes | | | Yes | | |
| Maximum number of titles | 999 | | | 250 | | | 250 | | | 250 | | |
| One Touch Copy | Yes (HDD to DVD, DVD to HDD) | | | Yes (HDD to DVD, DVD to HDD) | | | Yes (HDD to DVD, DVD to HDD) | | | Yes (HDD to DVD, DVD to HDD) | | |
| High Speed Copy | Yes (HDD to DVD, DVD to HDD)[10] | | | Yes (HDD to DVD, DVD to HDD)[10] | | | Yes (HDD to DVD, DVD to HDD)[10] | | | Yes (HDD to DVD, DVD to HDD)[10] | | |
| Rate Conversion Copy | Yes (HDD to DVD, DVD to HDD) | | | Yes (HDD to DVD, DVD to HDD) | | | Yes (HDD to DVD, DVD to HDD) | | | Yes (HDD to DVD, DVD to HDD) | | |
| Optimalized Copy | Yes (HDD to DVD) | | | Yes (HDD to DVD) | | | Yes (HDD to DVD) | | | Yes (HDD to DVD) | | |
| Disc Backup[11] | Yes | | | Yes | | | Yes | | | Yes | | |
| Auto Replace Recording | Yes | | | Yes | | | Yes | | | Yes | | |
| Resume (by Title) | Yes | | | Yes | | | Yes | | | Yes | | |
| Recovery Recording | Yes | | | Yes | | | Yes | | | Yes | | |
| **Convenience** | | | | | | | | | | | | |
| Disc History | | Yes | | | Yes | | | Yes | | | Yes | |
| Auto Clock set up | | Yes | | | Yes | | | Yes | | | Yes | |
| Setup Navigator | | Yes | | | Yes | | | Yes | | | Yes | |
| Channel preset download | | Yes | | | Yes | | | Yes | | | Yes | |
| **Tuner** | | | | | | | | | | | | |
| System | | PAL-B/G, I, D/K SECAM-L/L', B/G, D/K | | | PAL-B/G, I, D/K SECAM-L/L', B/G, D/K | | | PAL-B/G, I, D/K SECAM-L/L', B/G, D/K | | | PAL-B/G, I, D/K SECAM-L/L', B/G, D/K | |
| **Terminals** | | | | | | | | | | | | |
| Input | | | | | | | | | | | | |
| SCART | | 1 (A/V connector 2) | | | 1 (A/V connector 2) | | | 1 (A/V connector 2) | | | 1 (A/V connector 2) | |
| RGB Input (via Euro-SCART)[12] | | Yes | | | Yes | | | Yes | | | Yes | |
| RCA (Audio/Video) | | 2 (1 in front, 1 in rear) | | | 1 (front) | | | 1 (front) | | | 1 (front) | |
| S-Video | | 2 (1 in front, 1 in rear) | | | 1 (front) | | | 1 (front) | | | 1 (front) | |
| Output | | | | | | | | | | | | |
| SCART | | 1 (A/V connector 1) | | | 1 (A/V connector 1) | | | 1 (A/V connector 1) | | | 1 (A/V connector 1) | |
| RGB Output (via Euro-SCART) | | Yes | | | Yes | | | Yes | | | Yes | |
| HDMI Video Output | | 1 | | | — | | | — | | | — | |
| RCA (Audio/Video) | | 1 | | | 1 | | | 1 | | | 1 | |
| S-Video | | 1 | | | 1 | | | 1 | | | 1 | |
| Digital Audio | | Optical/Coaxial | | | Optical | | | Optical | | | Optical | |
| G-LINK (STB Control) | | 1 | | | — | | | — | | | — | |
| DV Terminal (IEEE1394)[13] | | IN/OUT | | | IN/OUT | | | IN/OUT | | | — | |
| Pioneer System Remote Control | | IN | | | IN | | | IN | | | IN | |
| Dimensions (W x H x D) | | 420 mm x 87 mm x 357 mm | | | 420 mm x 59 mm x 339 mm | | | 420 mm x 59 mm x 339 mm | | | 420 mm x 59 mm x 339 mm | |
| Weight | | 7.9 kg | | | 4.7 kg | | | 4.7 kg | | | 4.7 kg | |
| Power requirements | | AC 220 — 240 V, 50/60 Hz | | | AC 220 — 240 V, 50/60 Hz | | | AC 220 — 240 V, 50/60 Hz | | | AC 220 — 240 V, 50/60 Hz | |
| Power consumption | | 62 W | | | 56 W | | | 54 W | | | 54 W | |
| Power consumption in standby mode | | 0.7 W | | | 0.68 W (Display off) | | | 0.68 W (Display off) | | | 0.68 W (Display off) | |
| Remote Control | | Yes | | | Yes | | | Yes | | | Yes | |

1) CD-R/CD-RW playback: Disc may not be played back because of following reasons: recording characteristics of recorder, characteristics of disc, scratches and dust on disc, dust and condensation on pickup lens. CD-R/CD-RW playback: CD-R/CD-RW discs for Audio, recorded in CD Audio, VideoCD, WMA/MP3 audio or JPEG formatting can be played back. Unfinalised discs except CD audio formatting cannot be played back. Only CD audio is not compatible with multi-session discs. Only the first session of a multi-session disc will be recognized. 2) WMA content can be encoded by using Windows Media® Player version 9, or Windows Media® Player for Windows® XP. Compatible with sampling rate of 44.1 or 48 kHz. Not compatible with loss-less-encoding or variable bit-rate (VBR) WMA files. WMA files encoded with DRM (Digital Rights Management) copy protection will not play. Up to 99 folders and 999 tracks (MP3 and WMA) in total can be played. 3) Compatible with MPEG1 Audio Layer 3 44.1 kHz and 48 kHz formats. MP3 file name requires MP3 or mp3 as an extension. Compatible with VBR (Variable Bit Rate) (however the time display may not be shown correctly). Up to 99 folders and 999 tracks (MP3 and WMA) can be played in total. 4) JPEG file compatibility: This recorder is compatible with FUJICOLOR CD and KODAK Picture CD formats, as well as CD-R/CD-RW/CD-ROMs containig JPEG files. Baseline JPEG and EXIF files up to 19 megapixels are supported (maximum vertical is 3840 pixels and horizontal resolution is 5120 pixels). 5) Recording format should be in accordance with ISO9660 level 2 CD-ROM file system. Both Romeo and Joliet file systems are playable. CD physical format: Mode1, Mode2 XA Form 1. Chinese characters cannot be displayed, although files featuring such names can be played. 6) Only for DVD-RW Ver. 1.1/2x or Ver.1.2/4x disc. 7) Sound output by means of Dolby Digital and Linear PCM audio only. Dialog may not be clearly reproduced, depending on the recording conditions. No sound during DVD chase play. 8) For DVD-R discs, remaining volume is not increased after erasing titles. For DVD-RW discs, remaining volume is increased when erasing the last title. 9) With High-Speed Copy in 'Video Mode (DVD Video Mode)', editing point might be moved. 10) High-Speed Copy from DVD to HDD is only available for the original title in 'VR Mode (Video Recording Mode)' (except One Touch Copy). High-Speed Copy from the titles recorded with computers or other DVD recorders may not be available. 11) Only for finalized DVD-R/DVD-RW discs recorded in 'Video Mode (DVD Video Mode)'. 12) Available only for input line system (625 system for all models; also 525 system for the DVR-920H only). 13) "i.LINK" and "i.LINK" Logo are trademarks. Can be connected to video DV decks and DV camcoders. (some models are not compatible). Cannot be connected to DVD players and A/V amplifiers.

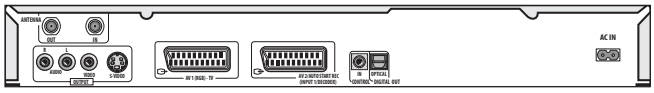
| DVD Recorders Features & Specifications | DVR-320-S | | DVR-220-S | |
|---|---|---|---|---|
| **HDD/DVD** | **DVD** | | **DVD** | |
| **Recording Mode (Format)** | **VR mode** | **Video mode** | **VR mode** | **Video mode** |
| **Playback** | | | | |
| Media | DVD-Video/DVD-R/DVD-RW/CD/SVCD/VCD/CD-R/CD-RW[1] | | DVD-Video/DVD-R/DVD-RW/CD/SVCD/VCD/CD-R/CD-RW[1] | |
| WMA[2]/MP3[3]/ JPEG file[4] recorded in CD-R/CD-RW[5] | Yes | | Yes | |
| Advanced Disc Navigator (DiscNavi) | Yes | Yes (before finalisation) | Yes | Yes (before finalisation) |
| Seamless Playback | Yes | — | Yes | — |
| CM Skip (Commercial Skip) | Yes | | Yes | |
| CM Back (Commercial Back) | Yes | | Yes | |
| Chase Playback, Playback with Recording | Yes[6] | — | Yes[6] | — |
| 1.5x view (scan1)[7] | Yes | | Yes | |
| **Recording** | | | | |
| Media | | | | |
| DVD-R | — | Yes | — | Yes |
| DVD-RW | Yes | Yes | Yes | Yes |
| Hard Disk Drive (HDD) | — | | — | |
| PAL/NTSC | Yes/Yes | | Yes/Yes | |
| Recording Mode: Max. Recording Time | FINE: +/- 1 hour SP: +/- 2 hours LP: +/- 4 hours EP: +/- 6 hours MN: +/- 1 — 6 hrs (32 steps) | | FINE: +/- 1 hour SP: +/- 2 hours LP: +/- 4 hours EP: +/- 6 hours MN: +/- 1 — 6 hrs (32 steps) | |
| Variable Bit Rate Recording | Yes | | Yes | |
| Easy Timer | Yes | | Yes | |
| VIDEO Plus+™ | Yes | | Yes | |
| VPS/PDC | Yes/Yes (8 programmes) | | Yes/Yes (8 programmes) | |
| Auto Start Recording | Yes | | Yes | |
| One Touch Recording | Yes | | Yes | |
| Direct TV Recording | Yes | | Yes | |
| Number of events | 32/month | | 32/month | |
| Linear PCM Recording (Audio) | Yes (FINE, MN32) | | Yes (FINE, MN32) | |
| **Editing** | | | | |
| Input Disc Name/Title Name | Yes/Yes | | Yes/Yes | |
| Easy Title Input (like Mobile Phone) | Yes | | Yes | |
| Wall paper samples (Title Menu) | — | Yes (Finalisation) | — | Yes (Finalisation) |
| Erase Title | Yes | Yes[8] | Yes | Yes[8] |
| Erase Chapter | Yes | — | Yes | — |
| Erase Section | Yes | — | Yes | — |
| PlayList | Yes | — | Yes | — |
| Accuracy | Frame | Title | Frame | Title |
| Chapter Mark | Yes | 10 min/15 min/ No separation | Yes | 10 min/15 min/ No separation |
| Undo | Yes | | Yes | |
| **Picture Quality** | | | | |
| Digital Noise Reduction | Component Frame DNR | | Component Frame DNR | |
| Video DAC | 10-bit/54 MHz | | 10-bit/54 MHz | |
| Digital TBC | Yes | | Yes | |
| Picture Creation | Yes | | Yes | |
| **Convenience** | | | | |
| Disc History | Yes | | Yes | |
| Auto Clock set up | Yes | | Yes | |
| Set up Navigator | Yes | | Yes | |
| Channel preset download | Yes | | Yes | |
| **Tuner** | | | | |
| System | PAL-B/G, I, D/K SECAM-L/L', B/G, D/K | | PAL-B/G, I, D/K SECAM-L/L', B/G, D/K | |
| **Terminal** | | | | |
| Input | | | | |
| SCART | 1 (A/V connector 2) | | 1 (A/V connector 2) | |
| RGB Input (via Euro-SCART)[9] | Yes | | Yes | |
| RCA (Audio/Video) | 1 (front) | | 1 (front) | |
| S-Video | 1 (front) | | 1 (front) | |
| Output | | | | |
| SCART | 1 (A/V connector 1) | | 1 (A/V connector 1) | |
| RGB Output (via Euro-SCART) | Yes | | Yes | |
| RCA (Audio/Video) | 1 | | 1 | |
| S-Video | 1 | | 1 | |
| Digital Audio | Optical | | Optical | |
| DV Terminal (IEEE1394)[10] | IN/OUT | | — | |
| Pioneer System Remote Control | IN | | IN | |
| Dimensions (W x H x D) | 420 mm x 59 mm x 339 mm | | 420 mm x 59 mm x 339 mm | |
| Weight | 4.0 kg | | 4.0 kg | |
| Power requirements | AC 220 — 240 V, 50/60 Hz | | AC 220 — 240 V, 50/60 Hz | |
| Power consumption | 35 W | | 31 W | |
| Power consumption in standby mode | 0.68 W (Display off) | | 0.68 W (Display off) | |
| Remote Control | Yes | | Yes | |

1) CD-R/CD-RW playback: Disc may not be played back because of following reasons: recording characteristics of recorder, characteristics of disc, scratches and dust on disc, dust and condensation on pickup lens. CD-R/CD-RW playback: CD-R/CD-RW discs for Audio, recorded in CD Audio, VideoCD, WMA/MP3 audio or JPEG formatting can be played back. Unfinalised discs except CD audio formatting cannot be played back. Only CD audio is not compatible with multi-session discs. Only the first session of a multi-session disc will be recognized. 2) WMA content can be encoded by using Windows Media® Player version 9, or Windows Media® Player for Windows® XP. Compatible with sampling rate of 44.1 or 48 kHz. Not compatible with loss-less-encoding or variable bit-rate (VBR) WMA files. WMA files encoded with DRM (Digital Rights Management) copy protection will not play. Up to 99 folders and 999 tracks (MP3 and WMA) in total can be played. 3) Compatible with MPEG1 Audio Layer 3 44.1 kHz and 48 kHz formats. MP3 file name requires MP3 or mp3 as an extension. Compatible with VBR (Variable Bit Rate) (however the time display may not be shown correctly). Up to 99 folders and 999 tracks (MP3 and WMA) can be played in total. 4) JPEG file compatibility: This recorder is compatible with FUJICOLOR CD and KODAK Picture CD formats, as well as CD-R/CD-RW/CD-ROMs containig JPEG files. Baseline JPEG and EXIF files up to 19 megapixels are supported (maximum vertical is 3840 pixels and horizontal resolution is 5120 pixels). 5) Recording format should be in accordance with ISO9660 level 2 CD-ROM file system. Both Romeo and Joliet file systems are playable. CD physical format: Mode1, Mode2 XA Form 1. Chinese characters cannot be displayed, although files featuring such names can be played. 6) Only for DVD-RW Ver. 1.1/2x or Ver.1.2/4x disc. 7) Sound output by means of Dolby Digital and Linear PCM audio only. Dialog may not be clearly reproduced, depending on the recording conditions. No sound during DVD chase play. 8) For DVD-R discs, remaining volume is not increased after erasing titles. For DVD-RW discs, remaining volume is increased when erasing the last title. 9) Available only for input line system (625 system). 10) "i.LINK" and "i.LINK" Logo are trademarks. Can be connected to video DV decks and DV camcoders. (some models are not compatible). Cannot be connected to DVD players and A/V amplifiers.

## DVD RECORDERS — BACK PANELS




Rear Panel DVR-920H-S




Rear Panel DVR-720H-S / DVR-520H-S / DVR-420H-S / DVR-320-S / DVR-220-S

# FEATURES & SPECIFICATIONS

| Digital Home Cinema Systems Features — 1 | RCS-9H | DCS-525 | DCS-424 | DCS-323 | DCS-222 |
|---|---|---|---|---|---|
| **SYSTEM** | | | | | |
| Display | FL | FL | FL | FL | FL |
| Dimmer Control | 2 step | 2 step | 2 step | 2 step | 2 step |
| Remote Control Unit | Preset (TV only) | Preset (TV only) | Preset (TV only) | Preset (TV only) | Preset (TV only) |
| Timer | Recording | Wake up/Sleep | Wake up/Sleep | Wake up/Sleep | Wake up/Sleep |
| **AMPLIFIER** | | | | | |
| Surround (DIN) | | | | | |
| Front | 75 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 59 W/ch (6 Ω, 1 % THD) |
| Centre | 75 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 59 W (6 Ω, 1 % THD) |
| Surround | 75 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 59 W/ch (6 Ω, 1 % THD) |
| Subwoofer (DIN) | 75 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 59 W (6 Ω, 1 % THD) |
| Surround (RMS) | | | | | |
| Front | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 75 W/ch (6 Ω, 10 % THD) |
| Centre | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 75 W (6 Ω, 10 % THD) |
| Surround | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 75 W/ch (6 Ω, 10 % THD) |
| Subwoofer (RMS) | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 75 W (6 Ω, 10 % THD) |
| Wireless Speaker (RMS) | — | 25 W/ch (4 Ω, 10 % THD) | — | — | — |
| **SURROUND SOUND** | | | | | |
| 3-Spot Surrond Setting (3 modes) | | | | | |
| Front Surround Movie | • | •[1] | • | • | — |
| Front Surround Music | • | •[1] | • | • | — |
| Extra Power | • | •[1] | • | • | — |
| Advanced Surround Mode | | | | | |
| Advanced Movie | • | • | • | • | • |
| Advanced Music | • | • | • | • | • |
| Expanded | • | • | • | • | • |
| Sports | • | • | • | • | • |
| Game | • | • | • | • | • |
| TV Surround | • | • | • | • | • |
| Virtual Surround | — | — | — | — | • |
| Extra Power Surround | • | — | — | — | • |
| 5-Channel Stereo | • | • | • | • | • |
| Phones Surround | • | • | • | • | • |
| Surround Mode | | | | | |
| Auto | • | • | • | • | • |
| Dolby Digital | • | • | • | • | • |
| Dolby Pro Logic | • | • | • | • | • |
| Dolby Pro Logic II Movie | • | • | • | • | • |
| Dolby Pro Logic II Music | • | • | • | • | • |
| Centre Width | | • | • | • | • |
| Dimension | | • | • | • | • |
| Panorama | | • | • | • | • |
| DTS | • | • | • | • | • |
| Stereo | • | • | • | • | • |
| Wireless Mode | | | | | |
| Normal | — | • | — | — | — |
| Wide | — | • | — | — | — |
| Left Side | — | • | — | — | — |
| Right Side | — | • | — | — | — |
| Stereo | — | • | — | — | — |
| Room Setup | • (3 sizes, 3 positions) | • (3 sizes, 3 positions) | • (3 sizes, 3 positions) | • (3 sizes, 3 positions) | • (3 sizes, 3 positions) |
| Virtual Surround Back | — | • | • | • | • |
| Dialogue Enhancement | • | • | • | • | • |
| **AUDIO FEATURES** | | | | | |
| Midnight Listening Mode | — | • | • | • | • |
| Quiet Mode | — | • | • | • | • |
| Bass Mode | • (Music/Cinema/P-Bass) | • (Music/Cinema/P-Bass) | • (Music/Cinema/P-Bass) | • (Music/Cinema/P-Bass) | • (Music/Cinema/P-Bass) |
| Bass/Treble Tone Control | • | • | • | • | • |
| Channel Level Control | • | • | • | • | • |
| **TUNER** | | | | | |
| RDS Tuner | • | • | • | • | • |
| Band (FM/AM) | • | • | • | • | • |
| Presets | 30 | 30 | 30 | 30 | 30 |
| Auto Tuning | • | • | • | • | • |
| **DVD RECORDING** | | | | | |
| Hard Disk Drive (HDD) | 80 GB | — | — | — | — |
| PAL/NTSC | • | — | — | — | — |
| Max. Recording Time (HDD) | 102 hrs (EP mode) | — | — | — | — |
| Maximum number of titles (HDD) | 250 | — | — | — | — |
| **DVD PLAYBACK** | | | | | |
| Playback Discs | DVD-Video/DVD-R/DVD-RW/ VCD/SVCD/CD/CD-R/ CD-RW (MP3, WMA, JPEG) | DVD-Video/DVD-R/DVD-RW/ VCD/SVCD/CD/CD-R/ CD-RW (MP3, WMA, JPEG) | DVD-Video/DVD-R/DVD-RW/ VCD/SVCD/CD/CD-R/ CD-RW (MP3, WMA, JPEG) | DVD-Video/DVD-R/DVD-RW/ VCD/SVCD/CD/CD-R/ CD-RW (MP3, WMA, JPEG) | DVD-Video/DVD-R/DVD-RW/ VCD/SVCD/CD/CD-R/ CD-RW (MP3, WMA, JPEG) |
| Advanced Disc Navigator | • | — | — | — | — |
| JPEG Viewer/Slide Show | • | • | • | • | • |
| DTS-CD | • | • | • | • | • |
| Twin-Wave Laser Pickup | • | • | • | • | • |
| Dual System (PAL/NTSC) (Video output) | • | • | • | • | • |
| 10-bit Video Signal D/A Converter | • | • | • | • | • |
| 96 kHz/24-bit D/A Converter | • | • | • | • | • |
| **CONVENIENCES** | | | | | |
| Advanced GUI (Graphical User Interface) | 5 languages | 5 languages | 5 languages | 5 languages | 5 languages |
| Guide Indication | • | • | • | • | • |
| On-Screen Information | • | • | • | • | • |
| High-Quality On-Screen Display | • | • | • | • | • |
| **SPECIAL PLAY FUNCTIONS** | | | | | |
| Programme Memory | — | • | • | • | • |
| Resume Function (Stop Key) | • | • | • | • | • |
| Continue Play Memory (Last Memory) (5 DVDs) | — | • | • | • | • |
| Disc History (30 Recordable DVDs) | • | — | — | — | — |
| Repeat Mode (All, Title/Chapter, A-B) | • | • | • | • | • |
| Programme Play | 24 | 24 | 24 | 24 | 24 |
| Still/Step Play | • (Forward/Reverse, except VCD reverse) | • (Forward/Reverse, except VCD/DVD-RW (VR Mode) reverse) | • (Forward/Reverse, except VCD/DVD-RW (VR Mode) reverse) | • (Forward/Reverse, except VCD/DVD-RW (VR Mode) reverse) | • (Forward/Reverse, except VCD/DVD-RW (VR Mode) reverse) |
| Slow Play | • (Forward/Reverse, except VCD reverse) | • (Forward/Reverse, except VCD/DVD-RW (VR Mode) reverse) | • (Forward/Reverse, except VCD/DVD-RW (VR Mode) reverse) | • (Forward/Reverse, except VCD/DVD-RW (VR Mode) reverse) | • (Forward/Reverse, except VCD/DVD-RW (VR Mode) reverse) |
| Random Play | — | • | • | • | • |
| CM Skip (Commercial Skip) | •[2] | — | — | — | — |
| CM Back (Commercial Back) | •[2] | — | — | — | — |
| Chase Playback, Playback while Recording | • (HDD, DVD-RW `VR Mode (DVD Video Recording Mode)`) | — | — | — | — |
| Scan/Search Functions | | | | | |
| 10-Key Direct Search and Play (Chapter/Track) | • | • | • | • | • |
| Title Search | • | • | • | • | • |
| Track/Time search | • | • | • | • | • |
| **OTHER SPECIAL FUNCTIONS** | | | | | |
| Transfer Bit Rate Indicator | • | • | • | • | • |
| Video Zoom | — | • | • | • | • |

1) Front Surround is possible when other speakers (not included in the box) are connected. 2) This feature can only be used with certain types of discs.

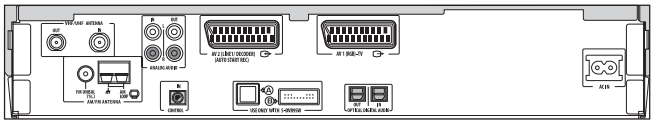
| Digital Home Cinema Systems Features — 2 | RCS-9H | DCS-525 | DCS-424 | DCS-323 | DCS-222 |
|---|---|---|---|---|---|
| **TERMINALS** | | | | | |
| Euro-SCART | 2 (IN1/OUT1), include RGB | • | • | • | • |
| Digital Input (Optical) | • | • | • | • | • |
| Digital Output (Optical) | • | — | — | — | — |
| Audio/Video Inputs | 2/1 (FRONT) | 2/– | 2/– | 2/– | 2/– |
| Audio/Video Output | 1/- | 1/1 | 1/1 | 1/1 | 1/1 |
| S-Video Input/Output | 1 (FRONT)/- | — | — | — | — |
| Wireless Output (RCA L/R) | — | • | — | — | — |
| Control Terminal Input (for PDP connection) | • | • | • | • | — |
| DV Terminal (IEEE1394) | IN/OUT | — | — | — | — |
| **SATELLITE AND SUBWOOFER SPEAKER SYSTEM** | | | | | |
| 3-Spot Surround Setting | • | — | • | • | — |
| Magnetically Shielded (Satellite) | • | •[1] | • | • | • |
| Magnetically Shielded (Subwoofer) | • | • | • | • | • |

1) Except wireless rear speaker.

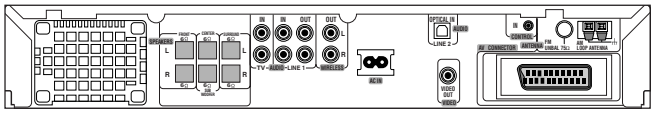
| Digital Home Cinema Systems Specifications | RCS-9H | DCS-525 | DCS-424 | DCS-323 | DCS-222 |
|---|---|---|---|---|---|
| **SYSTEM** | | | | | |
| Remote Control Unit | | | | | |
| Dimensions (W x H x D) | 55 x 215 x 24.5 mm | 48 x 236 x 29 mm | 48 x 236 x 29 mm | 48 x 236 x 29 mm | 48 x 236 x 29 mm |
| Weight | 110 g | 130 g | 130 g | 130 g | 130 g |
| Power Requirements | | | | | |
| DVD/CD Receiver | 220 — 230 V, 50/60 Hz | 220 — 230 V, 50/60 Hz | 220 — 230 V, 50/60 Hz | 220 — 230 V, 50/60 Hz | 220 — 230 V, 50/60 Hz |
| Wireless Speaker | — | 220 — 230 V, 50/60 Hz | — | — | — |
| Transmitter | — | 220 — 230 V, 50/60 Hz | — | — | — |
| Power Consumption In Use/Standby | | | | | |
| DVD/CD Receiver | 81 W/0.8 W (DVD-RW/TX)<br>151 W/0 W (Subwoofer) | 175 W/0.5 W | 175 W/0.5 W | 175 W/0.5 W | 160 W/0.39 W |
| Wireless Speaker | — | 52 W/- | — | — | — |
| Transmitter | — | 9 W/- | — | — | — |
| **DVD/CD RECEIVER** | | | | | |
| Dimensions (W x H x D) | 420 x 77.5 x 398 mm | 420 x 70 x 396 mm | 420 x 70 x 396 mm | 420 x 70 x 396 mm | 420 x 70 x 403 mm |
| Weight | 5.6 kg | 7.0 kg | 7.0 kg | 7.0 kg | 7.4 kg |
| **AMPLIFIER SECTION** | | | | | |
| DIN Continuous Output Power | | | | | |
| Front (1 kHz, 1 % THD) | 75 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 59 W/ch (6 Ω, 1 % THD) |
| Centre (1 kHz, 1 % THD) | 75 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 59 W (6 Ω, 1 % THD) |
| Rear (1 kHz, 1 % THD) | 75 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 70 W/ch (6 Ω, 1 % THD) | 59 W/ch (6 Ω, 1 % THD) |
| Subwoofer (100 Hz, 1 % THD) | 75 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 70 W (6 Ω, 1 % THD) | 59 W (6 Ω, 1 % THD) |
| RMS Output Power | | | | | |
| Front (1 kHz, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 75 W/ch (6 Ω, 10 % THD) |
| Centre (1 kHz, 10 % THD) | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 75 W (6 Ω, 10 % THD) |
| Rear (1 kHz, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 100 W/ch (6 Ω, 10 % THD) | 75 W/ch (6 Ω, 10 % THD) |
| Subwoofer (100 Hz, 10 % THD) | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 100 W (6 Ω, 10 % THD) | 75 W (6 Ω, 10 % THD) |
| Wireless (4 Ω, 1 kHz, 10 % THD) | — | 25 W/ch | — | — | — |
| **CD/DVD PLAYER SECTION** | | | | | |
| S/N Ratio (Audio) | 101 dB | 95 dB | 95 dB | 95 dB | 95 dB |
| Dynamic Range | 98 dB | 95 dB | 95 dB | 95 dB | 95 dB |
| Distortion | 0.002 % (Analogue Out) | 0.004 % | 0.004 % | 0.004 % | 0.004 % |
| Frequency Response | | | | | |
| 48 kHz Sampling | 4 — 22,000 Hz | 4 — 22,000 Hz | 4 — 22,000 Hz | 4 — 22,000 Hz | 4 — 22,000 Hz |
| 96 kHz Sampling | 4 — 44,000 Hz | 4 — 44,000 Hz | 4 — 44,000 Hz | 4 — 44,000 Hz | 4 — 44,000 Hz |
| **SPEAKER SECTION** | | | | | |
| Front Satellite | 10 x 7 cm, 2.6 cm 2-way | 10 x 7 cm | 10 x 7 cm, 2.6 cm 2-way | 10 x 7 cm | 15 x 6 cm |
| Impedance | 6 Ω | 6 Ω | 6 Ω | 6 Ω | 6 Ω |
| Frequency Range | 90 — 20,000 Hz | 90 — 20,000 Hz | 90 — 20,000 Hz | 90 — 20,000 Hz | 90 — 20,000 Hz |
| Maximum Input Power | 100 W | 100 W | 100 W | 100 W | 75 W |
| Sensitivity (1 m/W) | 83 dB | 83 dB | 83 dB | 83 dB | 84.5 dB |
| Dimensions (W x H x D) | 240 x 962 x 240 mm | 105 x 158 x 83 mm | 240 x 962 x 240 mm | 105 x 158 x 83 mm | 78 x 210 x 82 mm |
| Weight | 3.9 kg | 0.8 kg | 3.6 kg | 0.8 kg | 0.7 kg |
| Centre Satellite | 10 x 7 cm | 10 x 7 cm | 10 x 7 cm | 10 x 7 cm | 15 x 6 cm |
| Impedance | 6 Ω | 6 Ω | 6 Ω | 6 Ω | 6 Ω |
| Frequency Range | 78 — 20,000 Hz | 78 — 20,000 Hz | 78 — 20,000 Hz | 78 – 20,000 Hz | 78 — 20,000 Hz |
| Maximum Input Power | 100 W | 100 W | 100 W | 100 W | 75 W |
| Sensitivity (1 m/W) | 83 dB | 83 dB | 83 dB | 83 dB | 84 dB |
| Dimensions (W x H x D) | 240 x 86 x 79 mm | 240 x 87 x 79 mm | 240 x 87 x 79 mm | 240 x 87 x 79 mm | 240 x 85 x 96 mm |
| Weight | 0.85 kg | 0.85 kg | 0.85 kg | 0.85 kg | 0.75 kg |
| Rear Satellite | 7 cm | — | 7 cm | 7 cm | 15 x 6 cm |
| Impedance | 6 Ω | — | 6 Ω | 6 Ω | 6 Ω |
| Frequency Range | 90 — 20,000 Hz | — | 90 — 20,000 Hz | 90 — 20,000 Hz | 90 — 20,000 Hz |
| Maximum Input Power | 100 W | — | 100 W | 100 W | 75 W |
| Sensitivity (1 m/W) | 81 dB | — | 81 dB | 81 dB | 84.5 dB |
| Dimensions (W x H x D) | 105 x 139 x 83 mm | — | 105 x 139 x 83 mm | 105 x 139 x 83 mm | 78 x 210 x 82 mm |
| Weight | 0.55 kg | — | 0.55 kg | 0.55 kg | 0.7 kg |
| Subwoofer | 18 cm | 16 cm | 16 cm | 16 cm | 16 cm |
| Impedance | 6 Ω | 6 Ω | 6 Ω | 6 Ω | 6 Ω |
| Frequency Range | 25 — 2,300 Hz | 35 — 2,800 Hz | 35 — 2,800 Hz | 35 — 2,800 Hz | 35 — 2,800 Hz |
| Maximum Input Power | 100 W | 100 W | 100 W | 100 W | 75 W |
| Sensitivity (1 m/W) | 81 dB | 79 dB | 79 dB | 79 dB | 77 dB |
| Dimensions (W x H x D) | 192 x 395 x 436 mm | 108 x 420 x 390 mm | 108 x 420 x 390 mm | 108 x 420 x 390 mm | 130 x 360 x 360 mm |
| Weight | 12.5 kg | 5.0 kg | 5.0 kg | 5.0 kg | 4.5 kg |
| Wireless Speaker Unit | — | 7 cm | — | — | — |
| Impedance | — | 4 Ω | — | — | — |
| Dimensions (W x H x D) | — | 430 x 180 x 138 mm (without antenna) | — | — | — |
| Weight | — | 4.0 kg | — | — | — |
| Transmitter Unit | — | — | — | — | — |
| Dimension (W x H x D) | — | 166 x 56 x 112 mm | — | — | — |
| Weight | — | 0.3 kg | — | — | — |

# FEATURES & SPECIFICATIONS

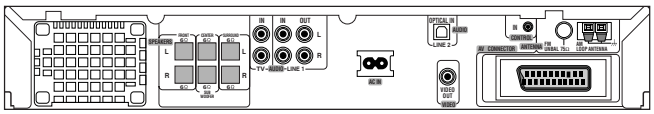
## DIGITAL HOME CINEMA SYSTEMS — BACK PANELS



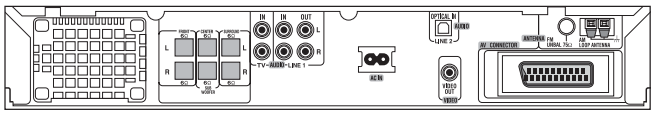
Rear Panel RCS-9H



Rear Panel DCS-525



Rear Panel DCS-424 / DCS-323

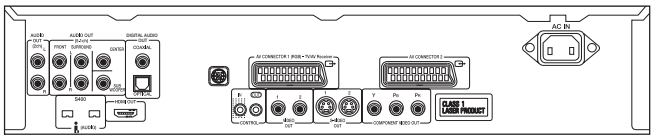


Rear Panel DCS-222

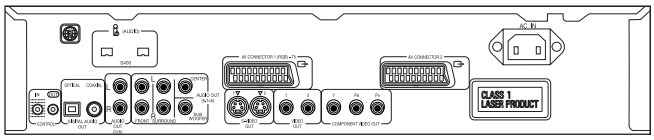
| DVD Players Specifications | DV-868AVi-S | DV-757Ai | DV-668AV-S | DV-575A-S<br>DV-575A-K |
|---|---|---|---|---|
| **VIDEO CHARACTERISTICS** | | | | |
| Horizontal Resolution (Lines) (DVD) | 540 | 540 | 540 | Over 500 |
| **DIGITAL AUDIO CHARACTERISTICS** | | | | |
| Total Harmonic Distortion | 0.0008 % | 0.0009 % | 0.0010 % | 0.0020 % |
| Frequency Response | | | | |
| 48 kHz | 4 — 22,000 Hz | 4 — 22,000 Hz | 4 — 22,000 Hz | 4 — 22,000 Hz |
| 96 kHz | 4 — 44,000 Hz | 4 — 44,000 Hz | 4 — 44,000 Hz | 4 — 44,000 Hz |
| 192 kHz | 4 — 88,000 Hz | 4 — 88,000 Hz | 4 — 88,000 Hz | 4 — 88,000 Hz |
| Signal-to-Noise Ratio | 118 dB | 118 dB | 118 dB | 115 dB |
| Dynamic Range | 108.8 dB | 108 dB | 108 dB | 101 dB |
| **MISCELLANEOUS** | | | | |
| Power Requirements | 220 — 240 V<br>50/60 Hz | 220 — 240 V<br>50/60 Hz | 220 — 240 V<br>50/60 Hz | 220 — 240 V<br>50/60 Hz |
| Power Consumption | 19 W | 18 W | 18 W | 12 W |
| Power Consumption (Standby Mode) | 0.3 W | 0.4 W | 0.3 W | 0.12 W |
| Dimensions (W x H x D) | 420 x 109 x 279 mm | 420 x 95 x 279 mm | 420 x 100 x 278 mm | 420 x 55 x 243 mm |
| Weight | 5.7 kg | 4.3 kg | 5.4 kg | 2.1 kg |

| DVD Players Specifications | DV-470-S<br>DV-470-K | DV-370-S<br>DV-370-K | DV-2750-S |
|---|---|---|---|
| **VIDEO CHARACTERISTICS** | | | |
| Horizontal Resolution (Lines) (DVD) | Over 500 | Over 500 | Over 500 |
| **DIGITAL AUDIO CHARACTERISTICS** | | | |
| Total Harmonic Distortion | 0.0020 % | 0.0020 % | 0.0020 % |
| Frequency Response | | | |
| 48 kHz | 4 — 22,000 Hz | 4 — 22,000 Hz | 4 — 22,000 Hz |
| 96 kHz | 4 — 44,000 Hz | 4 — 44,000 Hz | 4 — 44,000 Hz |
| 192 kHz | | | |
| Signal-to-Noise Ratio | 115 dB | 115 dB | 115 dB |
| Dynamic Range | 101 dB | 101 dB | 101 dB |
| **MISCELLANEOUS** | | | |
| Power Requirements | 220 — 240 V<br>50/60 Hz | 220 — 240 V<br>50/60 Hz | 220 — 240 V<br>50/60 Hz |
| Power Consumption | 12 W | 10 W | 10 W |
| Power Consumption (Standby Mode) | 0.12 W | 0.12 W | 0.12 W |
| Dimensions (W x H x D) | 420 x 55 x 243 mm | 420 x 53 x 237 mm | 420 x 53 x 247 mm |
| Weight | 2.1 kg | 2.1 kg | 2.1 kg |

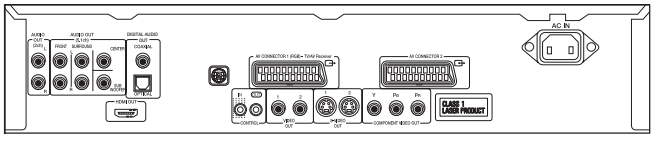
## DVD PLAYERS — BACK PANELS



Rear Panel DV-868AVi-S

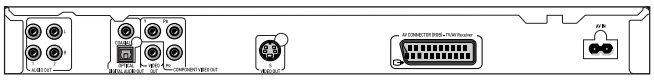


Rear Panel DV-757Ai

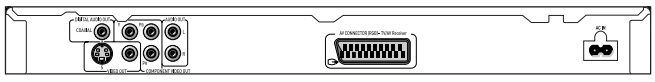


Rear Panel DV-668AV-S

Rear Panel DV-575A-S / DV-575A-K



Rear Panel DV-470-S / DV-470-K



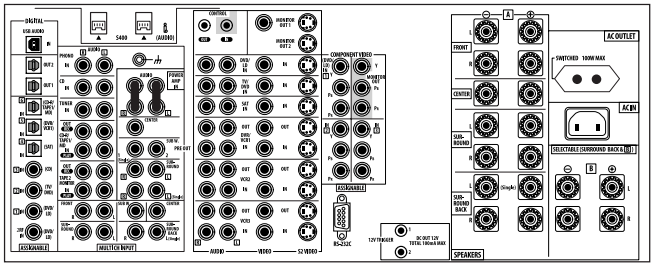
Rear Panel DV-370-S / DV-370-K / DV-2750-S

| DVD Players Features | DV-868AVi-S | DV-757Ai | DV-668AV-S | DV-575A-S DV-575A-K | DV-470-S DV-470-K | DV-370-S DV-370-K | DV-2750-S |
|---|---|---|---|---|---|---|---|
| **TECHNICAL FEATURES** | | | | | | | |
| Playback Discs | DVD/SVCD/VCD/CD/ CD-R[1]/CD-RW[1]/ DVD-R[1]/DVD-RW[1]/ DVD-AUDIO/ SACD/SACD MULTI | DVD/SVCD/VCD/CD/ CD-R[1]/CD-RW[1]/ DVD-R[1]/DVD-RW[1]/ DVD-AUDIO/ SACD/SACD MULTI | DVD/SVCD/VCD/CD/ CD-R[1]/CD-RW[1]/ DVD-R[1]/DVD-RW[1]/ DVD-AUDIO/ SACD/SACD MULTI | DVD/SVCD/VCD/CD/ CD-R[1]/CD-RW[1]/ DVD-R[1]/DVD-RW[1]/ DVD-AUDIO/ SACD/SACD MULTI | DVD/SVCD/VCD/CD/ CD-R[1]/CD-RW[1]/ DVD-R[1]/DVD-RW[1] | DVD/SVCD/VCD/CD/ CD-R[1]/CD-RW[1]/ DVD-R[1]/DVD-RW[1] | DVD/SVCD/VCD/CD/ CD-R[1]/CD-RW[1]/ DVD-R[1]/DVD-RW[1] |
| DVD-RW recorded in 'VR Mode (DVD Video Recording Mode)' (CPRM) | • | • | • | • | • | • | • |
| DVD-R/DVD-RW recorded in 'Video Mode (DVD Video Mode)' | • | • | • | • | • | • | • |
| DivX® Video playback[2] | — | — | — | • | • | — | — |
| Photo Viewer[3] (KODAK Picture CD/FUJI COLOR CD) | — | — | — | • | • | • | • |
| MP3[4]/WMA[5] | •/— | •/— | •/— | •/• | •/• | •/• | •/• |
| Dual System (PAL/NTSC) (Video output) | • | • | • | • | • | • | • |
| **CONSTRUCTION** | | | | | | | |
| Layered Chassis | • (New Triple) | • (Double) | • (New Triple) | — | — | — | — |
| Bonnet Cover Thickness | t = 0.8 mm | t = 0.6 mm | t = 0.6 mm | — | — | — | — |
| Stainless Stabilising Plate | • | • | • | — | — | — | — |
| **VIDEO FEATURES** | | | | | | | |
| PureCinema Progressive Scan (for NTSC/PAL) | • | • | • | • | • | • | • |
| Component Frame DNR PRO | • | • | • | — | — | — | — |
| Super Fine Focus Digital Filter (540 lines) | • | • | • | — | — | — | — |
| User Video Memory Modes | • (3 modes) | • (3 modes) | • (3 modes) | — | — | — | — |
| 216 MHz 14-/12-bit D/A Converter | • (14-bit) | — | • (12-bit) | — | — | — | — |
| 108 MHz/12-bit D/A Converter | — | • | — | • | • | — | — |
| 54 MHz/12-bit D/A Converter | — | — | — | — | — | • | • |
| Video Adjust | • (VQE8) | • (VQE7) | • (VQE8) | • | • | — | — |
| Two-Dimensional Resolution Expander Video Scaler IC (576 x 720i/p: PAL; 480 x 720i/p: NTSC; 720 x 1280p: PAL/NTSC; 1080 x 1920i: PAL/NTSC, VGA; 480 x 640p: NTSC) | • | — | — | — | — | — | — |
| Zoom Function | — | — | — | • | • | • | • |
| **AUDIO FEATURES** | | | | | | | |
| DVD-Audio playback | • | • | • | • | — | — | — |
| Super Audio CD playback | • | • | • | • | — | — | — |
| Super Audio CD multi playback | • | • | • | • | — | — | — |
| 192 kHz/24-bit D/A Converter | • (6-ch) | • (6-ch) | • (6-ch) | • (6-ch) | • | • | • |
| Built-in Decoder | | | | | | | |
| Dolby Digital Decoder (5.1-channel) | • | • | • | • | — | — | — |
| DTS Decoder | • | • | • | • | — | — | — |
| MPEG Multi Decoder | • (Front L, R ch only) | • (Front L, R ch only) | • (Front L, R ch only) | • | — | — | — |
| SACD Multi Decoder | • | • | • | • | — | — | — |
| Hi-bit Conversion | • (Front L, R) | • (Front L, R) | | — | — | — | — |
| Legato Link Conversion PRO | • (Front L, R) | • (Front L, R) | | — | — | — | — |
| Equaliser (Seven DSP Modes) | | | | — | — | • | • |
| Local Regulator for Analogue Audio | • | • | • | • | • | — | — |
| Digital Out On/Off | • (Auto) | • | • (Auto) | • | • | • | • |
| Dynamic Range Control (Dolby Digital) | • (on/off) | • (on/off) | • (on/off) | • (high/mid/low/off) | • (high/mid/low/off) | • (high/mid/low/off) | • (high/mid/low/off) |
| Bass Management | • | • | • | • | — | — | — |
| Delay Adjustment | • (except SACD) | • (except SACD) | • (except SACD) | • | — | — | — |
| Pure Audio ON/OFF | • | | • | — | — | — | — |
| Pure Audio (Video Off) | — | • | — | — | — | — | — |
| **CONVENIENCES** | | | | | | | |
| Special Play Functions | | | | | | | |
| Resume Function (Stop Key) | • | • | • | •[6] | • | • | • |
| Last Memory Function | — | — | — | • (5 DVD-Video discs) | • (5 DVD-Video discs) | • (1 DVD-Video disc) | • (1 DVD-Video disc) |
| Repeat Mode (All, Title/Chapter, A-B) | • | • | • | •[7] | •[7] | •[7] | •[7] |
| Programme Play (CD/SACD: Track, DVD-Video: Chapter & Title, DVD-A: Group/Track) | • | • | • | •[8] | •[8] | •[8] | •[8] |
| Still Play | • (Field/Frame/Auto) | • (Field/Frame) | • (Field/Frame/Auto) | — | — | — | — |
| Still/Step Play (Forward/Reverse)[9] | • | • | • | • | • | • | • |
| Slow Play (Forward/Reverse)[9] | • | • | • | • | • | • | • |
| Random Play[10] | • | • | • | • | • | • | • |
| Scan/Search Functions | | | | | | | |
| 10-Key Direct Search and Play (Chapter/Track) | • | • | • | • | • | • | • |
| Search mode (Group[11]/Title/Track (Chapter)/Time) | • (Title only) | • (Title only) | • (Title only) | •[12] | •[12] | •[12] | •[12] |
| Track/Time search | • | • | • | • | • | • | • |
| Page Search (DVD Audio) | • | • | • | • | — | — | — |
| Other Special Functions | | | | | | | |
| Jog & Joystick Remote Control Unit | • (with illumination) | • (with illumination) | • (with illumination) | — | — | — | — |
| Heads-Up Remote Control Unit | — | — | — | • | • | • | • |
| On-Screen Display on/off | • | • | • | — | — | — | — |
| FL Dimmer/Off | • (3 steps) | • (3 steps) | • (3 steps) | • (3 steps) | — | — | — |
| Advanced Disc Navigator with Moving Thumbnails | — | — | — | • | • | • | • |
| Advanced GUI (Graphical User Interface) | • | • | • | • | • | • | • |
| Mechanical Power Switch | • | • | — | — | — | — | — |
| Auto Power-Off (30 Minutes) | — | — | • | • | • | • | • |
| **TERMINALS** | | | | | | | |
| Euro-SCART | 1 (In/Out), 1 (Out) | 1 (In/Out), 1 (Out) | 1 (In/Out), 1 (Out) | — | — | — | — |
| RGB-Y/C Video Output (on Euro-SCART) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| HDMI Video Output | 1 (with Two-Dimensional Resolution Expander) | — | 1 | — | — | — | — |
| i.LINK (IEEE1394) | 2 | 2 | — | — | — | — | — |
| Component (Y'Pb'Pr') | 1 (gold-plated) | 1 (gold-plated) | 1 (gold-plated) | 1 | 1 | 1 | 1 |
| S-Video Output | 2 (gold-plated) | 2 (gold-plated) | 2 (gold-plated) | 1 | 1 | 1 | 1 |
| Video Output | 2 (gold-plated) | 2 (gold-plated) | 2 (gold-plated) | 1 | 1 | 1 | 1 |
| 5.1-Channel Audio Output | 1 (gold-plated) | 1 (gold-plated) | 1 (gold-plated) | 1 | — | — | — |
| Front L/R Audio Output | 1 (gold-plated) | 1 (gold-plated) | 1 (gold-plated) | — | — | — | — |
| Audio Output | — | — | — | 1 | 2 | 1 | 1 |
| Coaxial Digital Output | 1 (gold-plated) | 1 (gold-plated) | 1 (gold-plated) | 1 | 1 | 1 | 1 |
| Optical Digital Output | 1 | 1 | 1 | 1 | 1 | — | — |
| **CONTROL TERMINALS** | | | | | | | |
| Pioneer System Remote | IN/OUT | IN/OUT | IN/OUT | — | — | — | — |

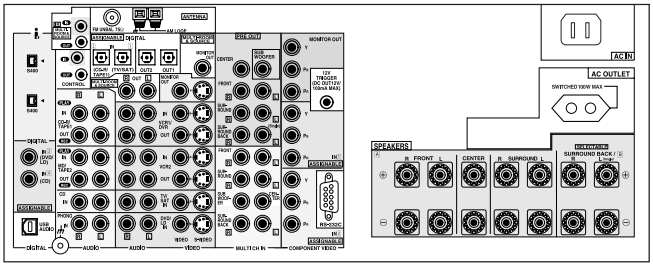
1) CD-R/CD-RW DVD-R/DVD-RW Playback: Disc may not be played back because of following reasons: recording characteristics of recorder/characteristics of disc/scratch and dust on disc/dust and condensation on pickup lens. CD-R/CD-RW Playback: CD-R/CD-RW discs for Audio, recorded in CD Audio, VideoCD or MP3/WMA audio formatting can be played back. Unfinalised discs cannot be played back. DVD-R/DVD-RW Playback: Unfinalised discs cannot be played back. 2) Official DivX® Certified Product. Compatible with DivX® 5, DivX® 4, DivX® 3, and DivX® VOD video content (in compliance with DivX® Certified technical requirements). 3) JPEG file compatibility: This player is compatible with FUJICOLOR CD and KODAK Picture CD formats, as well as CD-R/CD-RW/CD-ROMs containing JPEG files. 4) Compatible with MPEG1 Audio Layer3 format with a sampling rate of 32, 44.1 or 48 kHz. (DV-868AVi, DV-757AI, DV-668AV are compatible with a sampling rate of 44.1 or 48 kHz.) Recording format should be in accordance with ISO9660 Level 1 or Level 2 CD-ROM file system. Note that if the file structure is very complex, you may not be able to read/play all files on the disc. 5) WMA content can be encoded by using Windows Media® Player version 8 (or less) or Windows Media® Player for Windows® XP. Compatible with sampling rate of 32, 44.1 or 48 kHz. 6) Other than DVD-Audio and SACD. 7) "A-B Repeat" is available for DVD, CD Audio, VideoCD, SVCD. Not available for WMA/MP3. "All Repeat" is unavailable for DivX®. 8) "Programme Play" is unavailable for 'VR Mode (DVD Video Recording Mode)' format DVD-RW discs, VideoCD/SVCD in PBC mode, DivX®, WMA/MP3 discs, or while a DVD disc menu is being displayed. 9) Except VCD, SVCD, DivX® Video and 'VR Mode (DVD Video Recording Mode)' format DVD-RW reverse. 10) Not availabe for DivX®, WMA/MP3 files. 11) DV-575A only. 12) Search functions are not available with VideoCD/SVCD in PBC mode, or with WMA/MP3 discs. "Time search" is available for DivX®. "Time search" is unavailable for DVD-Audio, or SACD.
For detailed information on the playback conditions, please refer to the owners manual.

# FEATURES & SPECIFICATIONS

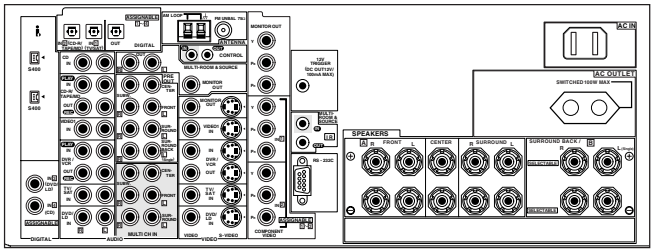
## A/V RECEIVERS — BACK PANELS 1



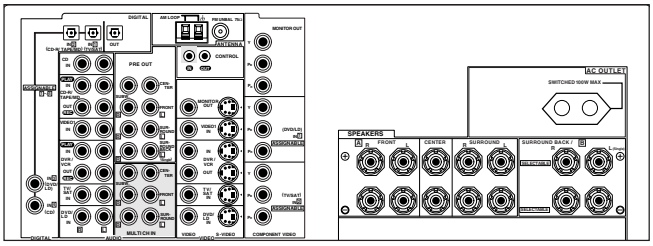
Rear Panel VSA-AX10Ai-S



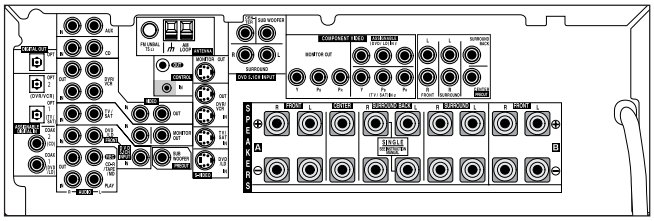
Rear Panel VSX-AX5Ai-S



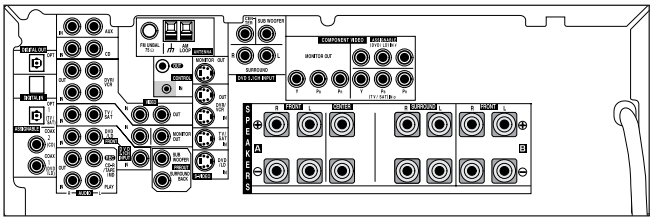
Rear Panel VSX-2014i-S



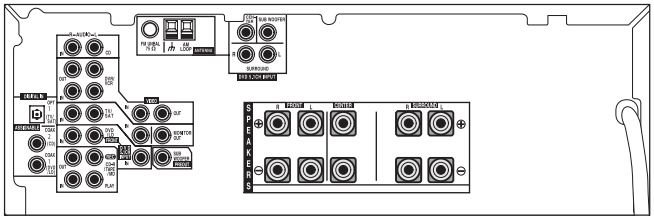
Rear Panel VSX-1014-S / VSX-1014-K



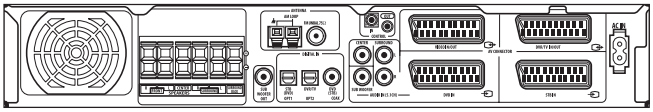
Rear Panel VSX-D814-S / VSX-D814-K



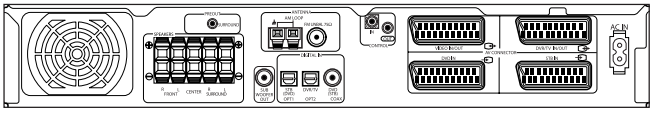
Rear Panel VSX-D714-S / VSX-D714-K



Rear Panel VSX-D514-S / VSX-D514-K



Rear Panel VSX-C502-S



Rear Panel VSX-C402-S / VSX-C402-K

| A/V Receivers<br>Features — 1 | VSA-AX10Ai-S | VSX-AX5Ai-S | VSX-2014i-S | VSX-1014-S<br>VSX-1014-K | VSX-D814-S<br>VSX-D814-K | VSX-D714-S<br>VSX-D714-K | VSX-D514-S<br>VSX-D514-K | VSX-C502-S | VSX-C402-S<br>VSX-C402-K |
|---|---|---|---|---|---|---|---|---|---|
| **POWER OUTPUT** | | | | | | | | | |
| RMS Power<br>(1 kHz, 10 % THD, 8 Ω per channel) | — | — | — | — | 120 W | 120 W | 100 W | 100 W (1 kHz,<br>10 % THD, 6 Ω) | 75 W (1 kHz,<br>10 % THD, 6 Ω) |
| Stereo (DIN) | 170 W + 170 W<br>(1 kHz, 1 % THD, 6 Ω) | 160 W + 160 W<br>(1 kHz, 1 % THD, 6 Ω) | 150 W + 150 W<br>(1 kHz, 1 % THD, 6 Ω) | 150 W + 150 W<br>(1 kHz, 1 % THD, 6 Ω) | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 80 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 60 W/ch<br>(1 kHz, 1 % THD, 6 Ω) | 40 W/ch<br>(1 kHz, 1 % THD, 6 Ω) |
| Surround (DIN) | | | | | | | | | |
| Front | 170 W + 170 W<br>(1 kHz, 1 % THD, 6 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 80 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 75 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 50 W/ch<br>(1 kHz, 1 % THD, 8 Ω) |
| Centre | 170 W<br>(1 kHz, 1 % THD, 6 Ω) | 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 100 W<br>(1 kHz, 1 % THD, 8 Ω) | 100 W<br>(1 kHz, 1 % THD, 8 Ω) | 80 W<br>1 kHz, 1 % THD, 8 Ω) | 75 W<br>(1 kHz, 1 % THD, 8 Ω) | 50 W<br>(1 kHz, 1 % THD, 8 Ω) |
| Rear (Surround) | 170 W + 170 W<br>(1 kHz, 1 % THD, 6 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 80 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 75 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 50 W/ch<br>(1 kHz, 1 % THD, 8 Ω) |
| Surround Back | 170 W + 170 W<br>(1 kHz, 1 % THD, 6 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 100 W<br>(1 kHz, 1 % THD, 8 Ω) | — | — | — | — |
| **SURROUND FORMAT** | | | | | | | | | |
| Dolby Digital | • | • | • | • | • | • | • | • | • |
| Dolby Digital EX/THX Surround EX | • | • | • | • | •<br>(Dolby Digital EX only) | •<br>(Dolby Digital EX only) | — | •<br>(Dolby Digital EX only) | — |
| DTS | • | • | • | • | • | • | • | • | • |
| DTS ES Discrete 6.1 | • | • | • | • | • | • | — | • | — |
| DTS ES Matrix 6.1 | • | • | • | • | • | • | — | • | — |
| DTS Neo:6 Cinema | • | • | • | • | • | • | — | • | — |
| DTS Neo:6 Music | • | • | • | • | • | • | — | • | — |
| DTS 96/24 | • | • | • | • | • | • | — | • | — |
| Dolby Pro Logic | • | • | • | • | • | • | • | • | • |
| Dolby Pro Logic II Movie | • | • | • | • | • | • | • | • | • |
| Dolby Pro Logic II Music | • | • | • | • | • | • | • | • | • |
| Dolby Pro Logic IIx | • | • | • | • | • | • | — | • | — |
| Dolby Pro Logic IIx Movie | • | • | • | • | • | • | — | • | — |
| Dolby Pro Logic IIx Music | • | • | • | • | • | • | — | • | — |
| Windows Media Audio 9 Professional | • | — | — | — | — | — | — | — | — |
| THX | • (Ultra2) | • (Select) | • (Select) | • (Select) | — | — | — | — | — |
| THX Cinema | • | • | • | • | — | — | — | — | — |
| THX Ultra2 Cinema | • | — | — | — | — | — | — | — | — |
| THX MusicMode | • | — | — | — | — | — | — | — | — |
| **PIONEER ORIGINAL SURROUND MODE** | | | | | | | | | |
| Advanced MUSIC | — | — | • | • | • | • | • | • | • |
| Advanced MOVIE | — | — | • | • | • | • | • | • | • |
| Expanded Theater | — | — | • | • | • | • | • | • | • |
| Virtual surround back | • | • | • | • | • | • | • | • | • |
| Virtual Surround | — | — | — | — | — | — | — | — | • |
| Phones Surround | • | — | • | • | • | • | • | • | • |
| Real Phantom | • | — | — | — | — | — | — | — | — |
| GAME | — | — | • | • | • | • | • | • | • |
| TV Surround | — | — | • | • | • | • | • | • | • |
| Sports | — | — | • | • | • | • | • | • | • |
| Advanced Cinema | | | | | | | | | |
| ACTION | • | • | — | — | — | — | — | — | — |
| MUSICAL | • | • | — | — | — | — | — | — | — |
| DRAMA | • | • | — | — | — | — | — | — | — |
| SCI-FI | • | • | — | — | — | — | — | — | — |
| MONOFILM | • | • | — | — | — | — | — | — | — |
| 5-D/7-D THEATER | • | • | — | — | — | — | — | — | — |
| Advanced Concert | | | | | | | | | |
| CLASSICAL | • | • | — | — | — | — | — | — | — |
| CHAMBER | • | • | — | — | — | — | — | — | — |
| JAZZ | • | • | — | — | — | — | — | — | — |
| ROCK | • | • | — | — | — | — | — | — | — |
| DANCE | • | • | — | — | — | — | — | — | — |
| 5/6/7-CH STEREO | • (7-channel) | • (7-channel) | • (7-channel) | • (7-channel) | • (6-channel) | • (6-channel) | • (5-channel) | • (6-channel) | • (5-channel) |
| **CONSTRUCTION** | | | | | | | | | |
| 3-D Space Frame Construction | • | • | • | • | — | — | — | — | — |
| Isolated Chamber Construction | — | • | • | • | — | — | — | — | — |
| Copper-plated Chassis | • | — | — | — | — | — | — | — | — |
| Direct Construction | • (Advanced) | • | • | • | • | • | • | — | — |
| Double-layered Chassis | • | • | — | — | — | — | — | — | — |
| Transformer Stabiliser | • | • | • | — | — | — | — | — | — |
| TAOC Stable Cast Iron Base | • | • (Insulator) | — | — | — | — | — | — | — |
| **AMPLIFIER DESIGN** | | | | | | | | | |
| Accurate Imaging System | • | • | • | • | • | • | • | • | • |
| Large Electrolytic Capacitors | 33,000 µF x 2 | 27,000 µF x 2 | — | — | — | — | — | — | — |
| Thick Copper Bus-Bar | • | — | — | — | — | — | — | — | — |
| Power Amplifier Design | • (A.D.E. MOSFET) | • (A.D.E. MOSFET) | • (A.D.E. MOSFET) | • (A.D.E. MOSFET) | — | — | — | — | — |
| Symmetrical Power Train Design | • | • | • | • | — | — | — | — | — |
| Pioneer Hybrid Amplification | — | — | — | — | • | • | • | — | — |
| Front L & R Bi-Amplifier Function | • | • | • | • | — | — | — | — | — |
| **MULTI-CHANNEL ACOUSTIC CALIBRATION SYSTEM (MCACC) & SET-UP FEATURE** | | | | | | | | | |
| MCACC | • (Advanced) | • (Advanced) | • (with MIC) | • (with MIC) | • (with MIC) | • (without MIC) | — | • (with MIC) | — |
| Auto Surround Setup Trim | • | • | • | • | • | — | — | • | — |
| Auto Surround Setup_Delay | • | • | • | • | • | — | — | • | — |
| Speaker System Detection | • | • | • | • | • | Subwoofer | — | • | • |
| Microphone | • | • | • | • | • | — | — | • | — |
| Acoustic Calibration EQ | 9-band (Auto/Manual) | 5-band (Auto/Manual) | 5-band (Auto/Manual) | 5-band (Auto/Manual) | — | — | — | — | — |
| 3-D Calibration Method | • | • | — | — | — | — | — | — | — |
| Compensation Adjustment (X-curve) | • | — | — | — | — | — | — | — | — |
| Reference Calibration Disc | • | — | — | — | — | — | — | — | — |
| Room Size Setup | — | — | — | — | • | • | • | — | • |
| Seat Position Setup | — | — | — | — | • | • | • | — | • |

# FEATURES & SPECIFICATIONS

| A/V Receivers Features — 2 | VSA-AX10Ai-S | VSX-AX5Ai-S | VSX-2014i-S | VSX-1014-S VSX-1014-K | VSX-D814-S VSX-D814-K | VSX-D714-S VSX-D714-K | VSX-D514-S VSX-D514-K | VSX-C502-S | VSX-C402-S VSX-C402-K |
|---|---|---|---|---|---|---|---|---|---|
| **AUDIO FEATURES** | | | | | | | | | |
| AIR Studios Sound Tuning | • | • | | | | | | | |
| DSP (Digital Signal Processor) | SHARC Melody Ultra 32-bit Floating-point x 2, Motorola 24-bit double precision equivalent to 48-bit | Motorola 150 MIPS 48-bit Processing x2 | Motorola 180 MIPS 48-bit Processing | Motorola 180 MIPS 48-bit Processing | Motorola 150 MIPS 48-bit Processing | Motorola 150 MIPS 48-bit Processing | Motorola 150 MIPS 48-bit Processing | Motorola 150 MIPS 48-bit Processing | Motorola 150 MIPS 48-bit Processing |
| 192 kHz/24-bit D/A Converter | • | • | • | • | • | • | • | — | — |
| 96 kHz/24-bit D/A Converter | — | — | — | — | — | — | — | • | • |
| 192 kHz/24-bit A/D Converter (all channel) | • | — | — | — | — | — | — | — | — |
| 96 kHz/24-bit A/D Converter (2-channel) | — | • | • | • | • | • | • | • | • |
| Flexible A/D Converter System | • | — | — | — | — | — | — | — | — |
| Audio Scaler (Hi-bit/Hi-sampling) | • | • | — | — | — | — | — | — | — |
| Precision Gain Management (PGM) Volume Control | • | — | — | — | — | — | — | — | — |
| Analogue Downmixing for Centre Channel | • | • (SACD) | — | — | — | — | — | — | — |
| DNR (Digital Noise Reduction) | • | • | — | — | — | — | — | — | — |
| Dialogue Enhancement | — | — | • | • | — | — | — | • | • |
| Midnight Listening Mode | • | • | • | • | • | • | • | • | • |
| Pioneer's exclusive Digital Core Engine | — | — | • | • | • | • | • | — | — |
| Quiet Mode | — | — | — | — | — | — | — | • | • |
| Bright | — | — | — | — | — | — | — | • | • |
| Stream Direct | • | • | — | — | — | — | — | — | — |
| Auto Surround | — | — | • | • | — | — | — | • | • |
| Source Direct | — | — | • | • | • | • | • | — | — |
| Bass/Treble Tone Controls | • | • | • | • | • | • | • | — | — |
| Loudness | • | • | • | • | • | • | • | — | — |
| S.Bass | — | — | — | — | — | — | — | • | • |
| **VIDEO FEATURES** | | | | | | | | | |
| Video Signal Selector | • | • | — | — | — | — | — | — | — |
| Universal Video Converter | • | • | • | — | — | — | — | — | — |
| **CONVENIENCES** | | | | | | | | — | — |
| On-Screen Display (GUI) | • (Including Component) | • (Including Component) | • (Including Component) | • (Including Component) | — | — | — | — | — |
| Remote Control | LCD Touch Panel, Preset & Learning | LCD, Preset & Learning | LCD, Preset & Learning | LCD, Preset & Learning | Preset & Learning | Preset | SR | Preset | Preset |
| Multi-Operation System (Macro) | • | • | — | — | — | — | — | — | — |
| Remote Control Illumination | LCD Backlight | • | — | — | — | — | — | — | — |
| DVD Control | • | • | • | • | • | • | • | • | • |
| Satellite Tuner Control | • | • | • | • | • | • | — | • | • |
| MCD Control | • | • | • | • | • | • | — | — | — |
| DTV Control | • | • | • | • | • | • | — | • | • |
| Rechargeable | • (charger station incl.) | — | — | — | — | — | — | — | — |
| Function Rename | • | • | — | — | — | — | — | — | — |
| FL Dimmer | 4 steps | 4 steps | 4 steps | 4 steps | 4 steps | 4 steps | 4 steps | 4 steps | 4 steps |
| Sound Delay | 6 frame/ 0.1 frame step | 6 frame/ 0.1 frame step | — | — | — | — | — | — | — |
| Sleep Timer | — | — | • | • | • | • | • | • | • |
| **TUNER** | | | | | | | | | |
| RDS (Radio Data System) | — | • | • | • | • | • | • | • | • |
| EON Link | — | • | • | • | • | • | • | • | • |
| Random Preset Stations | — | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| **TERMINALS** | | | | | | | | | |
| i.LINK (Advanced Resolution Digital Audio Interface) | 2 | 2 | 2 | — | — | — | — | — | — |
| USB | • (Multi-channel) | • (2-channel) | — | — | — | — | — | — | — |
| Custom Installer Ready (RS-232C) | • | • | • | — | — | — | — | — | — |
| 12 V Trigger Terminal | 2 | • | • | — | — | — | — | — | — |
| Multi-Channel Input | • (7.1-ch) | • (7.1-ch) | • (5.1-ch) | • (5.1-ch) | 5.1-ch (DVD) | 5.1-ch(DVD) | 5.1-ch (DVD) | 5.1-ch (LR via SCART) | — |
| RF Input for Dolby Digital (Demodulator) | • | — | — | — | — | — | — | — | — |
| IR In/Out | — | • | • | — | — | — | — | — | — |
| Digital Input | 7 (assignable) | 5 (assignable) | 5 (assignable) | 5 (assignable) | 5 (assign) | 3 (assign) | 3 (assign) | 4 (assign) | 4 (assign) |
| Coaxial | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 1 (selective) | 1 (selective) |
| Optical | 4 (includes Front in) | 3 (includes Front in) | 3 (includes Front in) | 3 (includes Front in) | 3 (includes front in) | 1 | 1 | 3 (includes front 1) | 3 (includes front 1) |
| Digital Output (Optical) | 2 | 2 | 1 | 1 | 1 | 1 | — | — | — |
| Audio (TUNER included)/Video Inputs | 5A/7AV | 5A/5AV | 3A/5AV | 3A/5AV | 4A/4AV | 4A/4AV | 3A/3AV | 1A/1AV (includes front 1) | 1A/1AV (includes front 1) |
| Audio/Video Output | 2A/3AV + 2V | 2A/2AV + 1V | 1A/1AV + 1V | 1A/1AV + 1V | 1A/1AV + 1V | 1A/1AV + 1V | 1A/1AV + 1V | — | — |
| Euro-SCART terminal | — | — | — | — | — | — | — | 4 | 4 |
| RGB Input/Output | — | — | — | — | — | — | — | 3/1 | 3/1 |
| Composite Input/Output | — | — | — | — | — | — | — | 4/2 | 4/2 |
| Phono Input | • | • | — | — | — | — | — | — | — |
| S-Video Input/Output | 7/5 (includes Front in) | 5/3 (includes Front in) | 5/2 (includes Front in) | 5/2 (includes Front in) | 4/2 (includes Front in) (includes front in) | 4/2 (includes Front in) (includes front in) | — | — | — |
| Component Input/Output | 3/1 (assignable) | 2/1 (assignable) | 2/1 (assignable) | 2/1 (assignable) | 2/1 (assign) | 2/1 (assign) | — | — | — |
| Pre-amp Output | • All (7.1-ch) | • All (7.1-ch) | • All (7.1-ch) | • All (7.1-ch) | • All (6.1-ch) | • (SW/SB) | • (SW) | • (SW) | • (SW) |
| Power Amp Input | FL/FR | — | — | — | — | — | — | — | — |
| A/V Input on Front | • | • | • | • | • | • | — | • | • |
| SR (System Remote) Terminal | • (In/Out) | • (In/Out) | • (In/Out) | • (In/Out) | • (In/Out) | • (In/Out) | — | • (In/Out) | • (In/Out) |
| SR+ | — | — | • (for PDP connection) | • (for PDP connection) | • (for PDP connection) | • (for PDP connection) | — | • (for PDP connection) | • (for PDP connection) |
| Speaker A/B | Versatile Speaker Configuration | Versatile Speaker Configuration | Versatile Speaker Configuration | Versatile Speaker Configuration | Independent | Independent | A only | A only | A only |
| Speaker Terminals | All large high-quality gold-plated solid type | All large high-quality solid type | All Large | All Large | All Large | All Large | All Large | Clip | Clip |

| A/V Receivers Specifications — 1 | VSA-AX10Ai-S | VSX-AX5Ai-S | VSX-2014i-S | VSX-1014-S<br>VSX-1014-K |
|---|---|---|---|---|
| **AMPLIFIER SECTION** | | | | |
| RMS Power<br>(1 kHz, 10 % THD, 8 Ω Per channel) | — | — | — | — |
| Stereo (DIN) | 170 W + 170 W<br>(1 kHz, 1 % THD, 6 Ω) | 160 W + 160 W<br>(1 kHz, 1 % THD, 6 Ω) | 150 W+150 W<br>(1 kHz, 1 % THD, 6 Ω) | 150 W+150 W<br>(1 kHz, 1 % THD, 6 Ω) |
| Surround (DIN) | | | | |
| Front | 170 W + 170 W<br>(1 kHz, 1 % THD, 6 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) |
| Centre | 170 W<br>(1 kHz, 1 % THD, 6 Ω) | 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) |
| Rear (Surround) | 170 W + 170 W<br>(1 kHz, 1 % THD, 6 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) |
| Surround Back | 170 W + 170 W<br>(1 kHz, 1 % THD, 6 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) | 120 W + 120 W<br>(1 kHz, 1 % THD, 8 Ω) |
| Input (Sensitivity/Impedance) | | | | |
| PHONO (MM) | 4.7 mV/47 kΩ | 4.7 mV/47 kΩ | — | — |
| Line (DVD, CD, etc.) | 382 mV/47 kΩ | 335 mV/47 kΩ | 335 mV/47 kΩ | 335 mV/47 kΩ |
| Frequency Response | | | | |
| PHONO (MM) | 20 — 20,000 Hz<br>+/- 0.3 dB | 20 — 20,000 Hz<br>+/- 0.3 dB | — | — |
| Line (DVD, CD, etc.) | 5 — 100,000 Hz<br>+0 dB, -3 dB | 5 — 100,000 Hz<br>+0 dB, -3 dB | 5 — 100,000 Hz,<br>+0 dB, -3 dB | 5 — 100,000 Hz,<br>+0 dB, -3 dB |
| Signal-to-Noise Ratio<br>(DIN; continuous rated power output/50 mW) | | | | |
| PHONO (MM) | 70/68 dB | — | — | — |
| Line (DVD, CD, etc.) | 93/73 dB | 92/65 dB | 92/65 dB | 92/65 dB |
| **FM TUNER SECTION** | | | | |
| Usable Sensitivity (Mono) | — | 15.2 dBf, IHF<br>(1.6 µV/75 Ω) | 15.2 dBf, IHF<br>(1.6 µV/75 Ω) | 15.2 dBf, IHF<br>(1.6 µV/75 Ω) |
| Sensitivity (DIN) | | | | |
| Mono (26 dB S/N, 75 Ω) | — | 1.1 µV | 1.1 µV | 1.1 µV |
| Stereo (46 dB S/N, 75 Ω) | — | 50 µV | 50 µV | 50 µV |
| Signal-to-Noise Ratio | | | | |
| Mono (DIN) | — | 62 dB | 62 dB | 62 dB |
| Stereo (DIN) | — | 58 dB | 58 dB | 58 dB |
| Stereo Separation (1 kHz) | — | 40 dB | 40 dB | 40 dB |
| **VIDEO SECTION** | | | | |
| Input (Sensitivity/Impedance) | 1 V p-p/75 Ω | 1 V p-p/75 Ω | 1 V p-p/75 Ω | 1 V p-p/75 Ω |
| **COMPONENT VIDEO** | | | | |
| Frequency Response<br>(720 p compatible) | 5 Hz - 100 MHz<br>+0 dB, -3 dB | 5 Hz - 100 MHz<br>+0 dB, -3 dB | 5 Hz — 40 MHz<br>+0 dB, -3 dB | 5 Hz — 40 MHz<br>+0 dB, -3 dB |
| **MISCELLANEOUS** | | | | |
| Power Requirements | AC 220 — 230 V<br>50/60 Hz | AC 220 — 230 V<br>50/60 Hz | AC 220 — 230 V<br>50/60 Hz | AC 220 — 230 V<br>50/60 Hz |
| Power Consumption | 725 W | 600 W | 430 W | 430 W |
| Power Consumption in standby mode | 0.65 W | 0.8 W | 0.52 W | 0.52 W |
| Dimensions (W x H x D) | 440 x 210 x 476 mm | 420 x 188 x 464 mm | 420 x 173 x 465 mm | 420 x 173 x 465 mm |
| Weight | 34 kg | 21.2 kg | 15.6 kg | 15.4 kg |

| A/V Receivers Specifications — 2 | VSX-D814-S<br>VSX-D814-K | VSX-D714-S<br>VSX-D714-K | VSX-D514-S<br>VSX-D514-K | VSX-C502-S | VSX-C402-S<br>VSX-C402-K |
|---|---|---|---|---|---|
| **AMPLIFIER SECTION** | | | | | |
| RMS Power<br>(1 kHz, 10 % THD, 8 Ω Per channel) | 120 W | 120 W | 100 W | 100 W (1 kHz, 10 % THD, 6 Ω) | 75 W (1 kHz, 10 % THD, 6 Ω) |
| Stereo (DIN) | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 80 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 60 W/ch<br>(1 kHz, 1 % THD, 6 Ω) | 40 W/ch<br>(1 kHz, 1 % THD, 6 Ω) |
| Surround (DIN) | | | | | |
| Front | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 80 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 75 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 50 W/ch<br>(1 kHz, 1 % THD, 8 Ω) |
| Centre | 100 W<br>(1 kHz, 1 % THD, 8 Ω) | 100 W<br>(1 kHz, 1 % THD, 8 Ω) | 80 W<br>1 kHz, 1 % THD, 8 Ω) | 75 W<br>(1 kHz, 1 % THD, 8 Ω) | 50 W<br>(1 kHz, 1 % THD, 8 Ω) |
| Rear (Surround) | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 100 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 80 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 75 W/ch<br>(1 kHz, 1 % THD, 8 Ω) | 50 W/ch<br>(1 kHz, 1 % THD, 8 Ω) |
| Surround Back | 100 W<br>(1 kHz, 1 % THD, 8 Ω) | — | — | — | — |
| Input (Sensitivity/Impedance) | | | | | |
| PHONO (MM) | — | — | — | — | — |
| Line (DVD, CD, etc.) | 200 mV/47 kΩ | 200 mV/47 kΩ | 200 mV/47 kΩ | 200 mV/47 kΩ | 200 mV/47 kΩ |
| Frequency Response | | | | | |
| PHONO (MM) | — | — | — | — | — |
| Line (DVD, CD, etc.) | 5 — 100,000 Hz,<br>+0 dB, -3 dB | 5 — 100,000 Hz,<br>+0 dB, -3 dB | 5 — 100,000 Hz,<br>+0 dB, -3 dB | — | — |
| Signal-to-Noise Ratio<br>(DIN; continuous rated power output/50 mW) | | | | | |
| PHONO (MM) | — | — | — | — | — |
| Line (DVD, CD, etc.) | 88/64 dB | 88/64 dB | 88/64 dB | — | — |
| **FM TUNER SECTION** | | | | | |
| Usable Sensitivity (Mono) | 13.2 dBf, IHF<br>(1.3 µV/75 Ω) | 13.2 dBf, IHF<br>(1.3 µV/75 Ω) | 13.2 dBf, IHF<br>(1.3 µV/75 Ω) | 15.2 dBf, IHF<br>(1.6 µV/75 Ω) | 15.2 dBf, IHF<br>(1.6 µV/75 Ω) |
| Sensitivity (DIN) | | | | | |
| Mono (26 dB S/N, 75 Ω) | 1.1 µV | 1.1 µV | 1.1 µV | 1.1 µV | 1.1 µV |
| Stereo (46 dB S/N, 75 Ω) | 50 µV | 50 µV | 50 µV | 50 µV | 50 µV |
| Signal-to-Noise Ratio | | | | | |
| Mono (DIN) | 62 dB | 62 dB | 62 dB | 62 dB | 62 dB |
| Stereo (DIN) | 58 dB | 58 dB | 58 dB | 58 dB | 58 dB |
| Stereo Separation (1 kHz) | 40 dB | 40 dB | 40 dB | 40 dB | 40 dB |
| **VIDEO SECTION** | | | | | |
| Input (Sensitivity/Impedance) | 1 V p-p/75 Ω | 1 V p-p/75 Ω | 1 V p-p/75 Ω | 1 V p-p/75 Ω | 1 V p-p/75 Ω |
| **COMPONENT VIDEO** | | | | | |
| Frequency Response<br>(720 p compatible) | 5 Hz — 40 MHz<br>+1/-3dB | 5 Hz — 40 MHz<br>+1/-3dB | — | — | — |
| **MISCELLANEOUS** | | | | | |
| Power Requirements | AC 220 — 230 V<br>50/60 Hz | AC 220 — 230 V<br>50/60 Hz | AC 220 — 230 V<br>50/60 Hz | AC 220 — 230 V<br>50/60 Hz | AC 220 — 230 V<br>50/60 Hz |
| Power Consumption | 280 W | 250 W | 220 W | 190 W | 150 W |
| Power Consumption in standby mode | 0.5 W | 0.5 W | 0.5 W | 0.4 W | 0.4 W |
| Dimensions (W x H x D) | 420 x 158 x 401 mm | 420 x 158 x 401 mm | 420 x 158 x 401 mm | 420 x 70 x 383 mm | 420 x 70 x 383 mm |
| Weight | 10.6 kg | 10.0 kg | 9.3 kg | 6.7 kg | 6.5 kg |

# FEATURES & SPECIFICATIONS

## Home Cinema Speakers Specifications — 1

| | S-V810A | S-V80A | S-C80 | S-V710-III | S-V70-III |
|---|---|---|---|---|---|
| **SYSTEM** | | | | | |
| Centre speaker | Bookshelf or floor-standing | Bookshelf or floor-standing | rear duct bass-reflex bookshelf or floor-standing | Compact | Compact |
| Front speakers | Floor-standing | Bookshelf | — | Floor-standing | Satellite |
| Rear speaker | Bookshelf | Bookshelf | — | Satellite | Satellite |
| Magnetically shielded for video use | • | • | • | • | • |
| Front | 13 cm cone woofer (x 2)<br>coaxial units:<br>13 cm cone medium,<br>2.5 cm dome tweeter,<br>super tweeter: Riffel type | coaxial units:<br>13 cm cone woofer,<br>2.5 cm dome tweeter | — | 10 cm cone woofer (x 2),<br>2.5 cm dome tweeter,<br>super tweeter: Riffel type | 7.7 cone woofer (x 2),<br>2 cm dome tweeter |
| Centre | 13 cm cone woofer (x 2)<br>coaxial units:<br>13 cm cone medium,<br>2.5 cm dome tweeter, | 13 cm cone woofer (x 2)<br>coaxial units:<br>13 cm cone medium,<br>2.5 cm dome tweeter, | 13 cm cone woofer (x2)<br>coaxial units:<br>13 cm cone medium,<br>2.5 cm dome tweeter | 7.7 cm cone woofer (x 2),<br>2 cm dome tweeter | 7.7 cm cone woofer (x 2),<br>2 cm dome tweeter |
| Rear | coaxial units:<br>13 cm cone woofer,<br>2.5 cm dome tweeter | coaxial units:<br>13 cm cone woofer,<br>2.5 cm dome tweeter | — | 7.7 cm cone woofer (x 2),<br>2 cm dome tweeter | 7.7 cm cone woofer (x 2),<br>2 cm dome tweeter |
| Subwoofer Module | 30 cm cone woofer | 30 cm cone woofer | — | 22 cm cone woofer | 22 cm cone woofer |
| Enclosure | Rear passive radiator | Rear passive radiator | — | • | • |
| Built-in Amplifier | • | • | — | • | • |
| Stereo (Screw Terminal) | • | • | — | • | • |
| Mono (Pin Jack) | • | • | — | • | • |
| Power Consumption | 56 W | 56 W | — | 300 W | 300 W |
| Power Requirements | AC 220 — 230 V, 50/60 Hz | AC 220 — 230 V, 50/60 Hz | — | AC 220 — 230 V, 50/60 Hz | AC 220 — 230 V, 50/60 Hz |
| Input Sensitivity/Impedance (100 Hz) | | | | | |
| Speaker level | 1.6 V + 1.6 V/15 kΩ | 1.6 V + 1.6 V/15 kΩ | — | 2.0 V + 2.0 V/15 kΩ | 2.0 V + 2.0 V/15 kΩ |
| Line level (RCA Jack) | 160 mV/50 kΩ | 160 mV/50 kΩ | — | 200 mV/50 kΩ | 200 mV/50 kΩ |
| Impedance | 6 Ω | 6 Ω | 6 Ω | 8 Ω | 8 Ω |
| Frequency Range | 35 — 100,000 Hz (front)<br>50 — 50,000 Hz (rear)<br>45 — 50,000 Hz (centre)<br>23 — 1,000 Hz (subw, bypass) | 50 — 50,000 Hz (front)<br>50 — 50,000 Hz (rear)<br>45 — 50,000 Hz (centre)<br>23 — 1,000 Hz (subw, bypass) | 45 - 50,000 Hz | 40 — 100,000 Hz (front)<br>60 — 40,000 Hz (rear)<br>62 — 42,000 Hz (centre)<br>30 — 200 Hz (subw) | 60 — 40,000 Hz (front)<br>60 — 40,000 Hz (rear)<br>62 — 42,000 Hz (centre)<br>30 — 200 Hz (subw) |
| Sensitivity (1 W/1 m) | 89 dB (front, centre)<br>88 dB (rear) | 88 dB (front, rear)<br>89 dB (centre) | 89 dB | 86 dB (front)<br>89 dB (rear, centre) | 89 dB |
| Maximum Power | 130 W (front, rear, centre)<br>250 W RMS (subw) | 130 W (front, rear, centre)<br>250 W RMS (subw) | 130 W | 130 W (front, rear, centre)<br>150 W RMS (subw) | 130 W (front, rear, centre)<br>150 W RMS (subw) |
| **DIMENSIONS (W x H x D)** | | | | | |
| Front | 250 x 1190 x 300 mm | 190 x 350 x 290 mm | — | 270 x 1100 x 270 mm (with base)<br>156 x 1065 x 150 mm (without base) | 150 x 300 x 70 mm |
| Rear | 190 x 350 x 290 mm | 190 x 350 x 290 mm | — | 300 x 150 x 70 mm | 300 x 150 x 70 mm |
| Centre | 560 x 190 x 300 mm (without base)<br>560 x 215 x 300 mm (with base) | 560 x 190 x 300 mm (without base)<br>560 x 215 x 300 mm (with base) | 560 x 190 x 300 mm (without base)<br>560 x 215 x 300 mm (with base) | 150 x 300 x 70 mm | 150 x 300 x 70 mm |
| Subwoofer | 430 x 480 x 430 mm | 430 x 480 x 430 mm | — | 280 x 480 x 495 mm | 280 x 480 x 495 mm |
| **WEIGHT** | | | | | |
| Front | 25 kg | 7.3 kg | — | 11.5 Kg | 2.7 kg |
| Rear | 7.3 kg | 7.3 kg | — | 2.7 kg | 2.7 kg |
| Centre | 15.6 kg | 15.6 kg | 15.6 kg | 2.7 kg | 2.7 kg |
| Subwoofer | 34.5 kg | 34.5 kg | — | 19.7 kg | 19.7 kg |

## Home Cinema Speakers Specifications — 2

| | S-V610 | S-V60 | S-VLF5 | S-VLF3 | S-V50-G<br>S-V50N-K |
|---|---|---|---|---|---|
| **SYSTEM** | | | | | |
| Centre speaker | Compact | Compact | Compact | Compact | Compact |
| Front speakers | Floor-standing | Satellite | Satellite | Satellite | Satellite |
| Rear speaker | Satellite | Satellite | Satellite | Satellite | Satellite |
| Magnetically shielded for video use | • | • | • | • | • |
| Front | 7.7 cm cone woofer (x 2)<br>2 cm dome tweeter | 7.7 cm cone woofer<br>2 cm dome tweeter | 7.7 cm aluminium reversed dome woofer (x 2)<br>2.0 cm soft dome tweeter | 8.7 cm cone, thin type woofer (x2)<br>2 cm dome tweeter | 5.2 cm cone woofer (x 2) |
| Centre | 7.7 cm cone woofer (x 2)<br>2 cm dome tweeter | 7.7 cm cone woofer (x 2)<br>2 cm dome tweeter | 7.7 cm aluminium reversed dome woofer (x 2)<br>2.0 cm soft dome tweeter | 8.7 cm cone, thin type woofer (x2)<br>2 cm dome tweeter | 5.2 cm cone woofer (x 2) |
| Rear | 7.7 cm cone woofer<br>2 cm dome tweeter | 7.7 cm cone woofer<br>2 cm dome tweeter | 7.7 cm aluminium reversed dome woofer (x 2)<br>2.0 cm soft dome tweeter | 8.7 cm cone, thin type woofer (x2)<br>2 cm dome tweeter | 5.2 cm cone woofer (x 2) |
| Subwoofer Module | 22 cm cone woofer | 22 cm cone woofer | 22 cm cone woofer | 22 cm cone woofer | 16 cm cone woofer |
| Enclosure | Front duct Bass-reflex | Front duct Bass-reflex | • | • | Bottom duct Bass-reflex |
| Built-in Amplifier | • | • | • | • | • |
| Stereo (Screw Terminal) | • | • | • | • | • |
| Mono (Pin Jack) | • | • | • | • | • |
| Power Consumption | 210 W | 210 W | 300 W | 210 W | 80 W |
| Power Requirements | AC 220 — 230 V, 50/60 Hz | AC 220 — 230 V, 50/60 Hz | AC 220 — 230 V, 50/60 Hz | AC 220 — 230 V, 50/60 Hz | AC 220 — 230 V, 50/60 Hz |
| Input Sensitivity/Impedance (100 Hz) | | | | | |
| Speaker level | 2.0 V + 2.0 V/15 kΩ | 2.0 V + 2.0 V/15 kΩ | 2.0 V + 2.0 V/15 kΩ | 2.0 V + 2.0 V/15 kΩ | |
| Line level (RCA Jack) | 200 mV/50 kΩ | 200 mV/50 kΩ | 200 mV/50 kΩ | 200 mV/50 kΩ | 180 mV/50 kΩ |
| Impedance | 8 Ω | 8 Ω | 8 Ω | 8 Ω | 8 Ω |
| Frequency Range | 60 — 20,000 Hz (front)<br>80 — 20,000 Hz (rear)<br>70 — 20,000 Hz (centre)<br>30 — 200 Hz (subw) | 80 — 20,000 Hz (front)<br>80 — 20,000 Hz (rear)<br>70 — 20,000 Hz (centre)<br>30 — 200 Hz (subw) | 60 — 40,000 Hz (front)<br>60 — 40,000 Hz (rear)<br>60 — 40,000 Hz (centre)<br>30 — 200 Hz (subw) | 65 — 40,000 Hz (front)<br>65 — 40,000 Hz (rear)<br>60 — 40,000 Hz (centre)<br>30 — 200 Hz (subw) | 90 — 20,000 Hz (front)<br>90 — 20,000 Hz (rear)<br>80 — 20,000 Hz (centre)<br>30 — 200 Hz (subw) |
| Sensitivity (1 W/1 m) | 86 dB (front, centre)<br>85 dB (rear) | 86 dB (center)<br>85 dB (front, rear) | 89 dB | 89 dB | 88 dB |
| Maximum Power | 100 W (front, rear, centre)<br>120 W RMS (subw) | 100 W (front, rear, centre)<br>120 W RMS (subw) | 130 W (front, rear, centre)<br>150 W RMS (subw) | 130 W (front, rear, centre)<br>120 W RMS (subw) | 100 W (front, rear, centre)<br>85 W RMS (subw) |
| **DIMENSIONS (W x H x D)** | | | | | |
| Front | 340 x 1050 x 340 mm (with base) | 144 x 190 x 110 mm | 205 x 280 x 90 mm | 140 x 400 x 51 mm | 130 x 200 x 59 mm |
| Rear | 144 x 190 x 110 mm | 144 x 190 x 110 mm | 205 x 280 x 90 mm | 140 x 400 x 51 mm | 130 x 200 x 59 mm |
| Centre | 380 x 144 x 110 mm (without base)<br>380 x 156 x 151 mm (with base) | 380 x 144 x 110 mm (without base)<br>380 x 156 x 151 mm (with base) | 280 x 165 x 90 mm | 140 x 400 x 59 mm | 240 x 94 x 97 mm |
| Subwoofer | 250 x 480 x 475 mm | 250 x 480 x 475 mm | 280 x 480 x 495 mm | 250 x 480 x 475 mm | 300 x 375 x 380 mm |
| **WEIGHT** | | | | | |
| Front | 8.6 kg | 2.1 kg | 3 kg | 1.6 kg | 0.9 kg |
| Rear | 2.1 kg | 2.1 kg | 3 kg | 1.6 kg | 0.9 kg |
| Centre | 4.0 kg | 4.0 kg | 3 kg | 1.7 kg | 0.9 kg |
| Subwoofer | 14.2 kg | 14.2 kg | 19.7 kg | 14.2 kg | 11.5 kg |

## Home Cinema Speakers Specifications — 3

| | S-V42 | S-V59-II | S-V510 | S-V410 | S-V310-QL |
|---|---|---|---|---|---|
| **SYSTEM** | | | | | |
| Centre speaker | Compact | Compact | Compact | Compact | C |
| Front speakers | Satellite | Satellite | Floor-standing | Floor-standing | Floor-standing |
| Rear speaker | Satellite | Satellite | Satellite | Floor-standing | Satellite |
| Magnetically shielded for video use | • | • | • | • | • |
| Front | 9 cm cone woofer | 10 cm dual-cone | 14 cm cone woofer (x 3),<br>2.5 cm dome tweeter | 5.2 cm cone woofer<br>2.5 cm dome tweeter | 14 cm cone woofer (x 2),<br>2.5 cm dome tweeter |
| Centre | 9 cm cone woofer | 10 cm cone woofer (x 2),<br>2.5 cm dome tweeter | 10 cm cone woofer (x 2),<br>2.5 cm dome tweeter | 5.2 cm cone woofer<br>2.5 cm dome tweeter | 8.3 cm cone woofer |
| Rear | 9 cm cone woofer | 10 cm dual-cone | 10 cm dual-cone | 5.2 cm cone woofer<br>2.5 cm dome tweeter | 8.3 cm cone woofer |
| Subwoofer Module | 16 cm cone woofer | 22 cm cone woofer | — | 16 cm cone woofer | — |
| Enclosure | Bottom duct Bass-reflex | • | — | Bottom duct Bass-reflex | — |
| Built-in Amplifier | • | • | — | • | — |
| Stereo (Screw Terminal) | • | • | — | • | — |
| Mono (Pin Jack) | • | • | — | • | — |
| Power Consumption | 80 W | 210 W | — | 80 W | — |
| Power Requirements | AC 220 — 230 V, 50/60 Hz | AC 220 — 230 V, 50/60 Hz | — | AC 220 — 230 V, 50/60 Hz | — |
| Input Sensitivity/Impedance (100 Hz) | | | | | |
| Speaker level | — | 2.0 V + 2.0 V/15 kΩ | — | — | — |
| Line level (RCA Jack) | 180 mV/50 kΩ | 200 mV/50 kΩ | — | 180 mV/50 kΩ | — |
| Impedance | 8 Ω | 8 Ω | 8 Ω | 8 Ω | 8 Ω |
| Frequency Range | 100 — 20,000 Hz (front)<br>100 — 20,000 Hz (rear)<br>100 — 20,000 Hz (centre)<br>30 — 200 Hz (subw) | 60 — 20,000 Hz (front)<br>60 — 20,000 Hz (rear)<br>60 — 35,000 Hz (centre)<br>30 — 200 Hz (subw) | 30 — 35,000 Hz (front)<br>60 — 20,000 Hz (rear)<br>60 — 35,000 Hz (centre) | 150 — 20,000 Hz (front)<br>150 — 20,000 Hz (rear)<br>150 — 20,000 Hz (centre)<br>30 — 200 Hz (subw) | 35 — 35,000 Hz (front)<br>80 — 20,000 Hz (rear)<br>80 — 20,000 Hz (centre) |
| Sensitivity (1 W/1 m) | 88 dB | 90 dB | 90 dB | 85 dB | 90 dB (Front)<br>89 dB (Rear, Centre) |
| Maximum Power | 80 W (front, rear, centre)<br>85 W RMS (subw) | 100 W (front, rear, centre)<br>120 W RMS (subw) | 100 W | 100 W (front, rear, centre)<br>85 W RMS (subw) | 100 W (front)<br>80 W (rear, centre) |
| **DIMENSIONS (W x H x D)** | | | | | |
| Front | 100 x 160 x 75 mm | 150 x 190 x 90 mm | 251 x 1,030 x 422 mm (with base)<br>185 x 1,000 x 390 mm (without base) | 210 x 1050 x 210 | 240 x 925 x 345 mm (with base)<br>184 x 900 x 318 mm (without base) |
| Rear | 100 x 160 x 75 mm | 150 x 190 x 90 mm | 150 x 190 x 90 mm | 210 x 1050 x 210 | 110 x 220 x 78 mm |
| Centre | 100 x 160 x 75 mm | 440 x 150 x 110 mm | 440 x 150 x 110 mm | 370 x 68.8 x 52.5 | 220 x 110 x 78 mm |
| Subwoofer | 300 x 375 x 380 mm | 250 x 480 x 475 mm | — | 300 x 375 x 380 mm | — |
| **WEIGHT** | | | | | |
| Front | 0.7 kg | 1.3 kg | 18.5 kg | 3.0 kg | 11.5 kg |
| Rear | 0.7 kg | 1.3 kg | 1.3 kg | 3.0 kg | 0.8 kg |
| Centre | 0.7 kg | 3 kg | 3 kg | 0.9 kg | 0.8 kg |
| Subwoofer | 11.5 kg | 14.2 kg | — | 11.5 kg | — |

## Home Cinema Speakers Specifications — 4

| | S-V32A-QL<br>S-V32A-W | S-V230A-QL<br>S-V230A-W | S-W250S | S-W150S<br>S-W150S-K | S-W110S<br>S-W110S-K<br>S-W110S-QL | S-W90S |
|---|---|---|---|---|---|---|
| **SYSTEM** | | | | | | |
| Centre speaker | Compact | Compact | — | — | — | — |
| Front speakers | Satellite | Floor-standing | — | — | — | — |
| Rear speaker | Satellite | Satellite | — | — | — | — |
| Magnetically shielded for video use | • (except rear) | • (except rear) | — | — | — | — |
| Front | 8.3 cm cone woofer | 13 cm cone woofer<br>7 cm cone midrange<br>2.5 cm dome tweeter | — | — | — | — |
| Centre | 8.3 cm cone woofer | 8.3 cm cone woofer | — | — | — | — |
| Rear | 8.3 cm cone woofer | 8.3 cm cone woofer | — | — | — | — |
| Subwoofer Module | 16 cm cone woofer | — | 30 cm cone woofer | 22 cm cone woofer | 22 cm cone woofer | 16 cm cone woofer |
| Enclosure | Bottom duct Bass-reflex | — | Rear passive radiator | • | Front duct Bass-reflex | Bottom duct Bass-reflex |
| Built-in Amplifier | • | — | • | • | • | • |
| Stereo (Screw Terminal) | • | — | • | • | • | • |
| Mono (Pin Jack) | • | — | • | • | • | • |
| Power Consumption | 80 W | — | 56 W | 300 W | 210 W | 80 W |
| Power Requirements | AC 220 — 230 V, 50/60 Hz | — | AC 220 — 230 V, 50/60 Hz | AC 220 – 230 V, 50/60 Hz | AC 220 — 230 V, 50/60 Hz | AC 220 — 230 V, 50/60 Hz |
| Input Sensitivity/Impedance (100 Hz) | | | | | | |
| Speaker level | — | — | 1,6 V + 1,6 V/15kΩ | 2.0 V + 2.0 V/15 kΩ | 2,0 V + 2,0 V/15kΩ | — |
| Line level (RCA Jack) | 180 mV/50 kΩ | — | 160 mV/50 kΩ | 200 mV/50 kΩ | 200 mV/50 kΩ | 180 mV/50 kΩ |
| Impedance | 8 Ω | 8 Ω | — | — | — | — |
| Frequency Range | 80 — 20,000 Hz (front)<br>80 — 20,000 Hz (rear)<br>80 — 20,000 Hz (centre)<br>30 — 200 Hz (subw) | 40 — 20,000 Hz (front)<br>80 — 20,000 Hz (rear)<br>80 — 20,000 Hz (centre) | 23 — 1,000 Hz (bypass) | 30 — 200 Hz | 30 — 200 Hz | 30 — 200 Hz |
| Sensitivity (1 W/1 m) | 89 dB | 89 dB | — | — | — | — |
| Maximum Power | 80 W (front, rear, centre)<br>85 W RMS (subw) | 80 W | 250 W RMS | 150 W RMS | 120 W RMS | 85 W RMS |
| **DIMENSIONS (W x H x D)** | | | | | | |
| Front | 110 x 220 x 78 mm | 202 x 870 x 271 mm | — | — | — | — |
| Rear | 110 x 220 x 78 mm | 220 x 110 x 78 mm | — | — | — | — |
| Centre | 220 x 110 x 78 mm | 110 x 220 x 78 mm | — | — | — | — |
| Subwoofer | 300 x 375 x 380 mm | — | 430 x 480 x 430 mm | 280 x 480 x 495 mm | 250 x 480 x 475 mm | 300 x 375 x 380 mm |
| **WEIGHT** | | | | | | |
| Front | 0.8 kg | 6.8 kg | — | — | — | — |
| Rear | 0.8 kg | 0.8 kg | — | — | — | — |
| Centre | 0.8 kg | 0.8 kg | — | — | — | — |
| Subwoofer | 11.5 kg | — | 34.5 kg | 19.7 kg | 14.2 kg | 11.5 kg |

| CD Recorders<br>Features | PDR-W839 | PDR-609 |
|---|---|---|
| **DRIVE** | | |
| CD-R | Single-tray | Single-tray |
| CD | 3-CD | — |
| Applicable Discs | CD/CD-R/CD-RW | CD/CD-R/CD-RW |
| **DIGITAL FEATURES** | | |
| D/A Converter | 24-bit D/A Converter | 24-bit D/A Converter |
| A/D Converter | 24-bit A/D Converter | 24-bit A/D Converter |
| Legato Link Conversion | • | • |
| Sampling Rate Converter | • | • |
| **STRUCTURAL FEATURES** | | |
| High Rigidity Chassis | • | • |
| Clean Laser Pickup Circuit | • | • |
| Three-Beam Differential<br>Push-Pull Pickup | • | • |
| **RECORDING FEATURES** | | |
| Z-Concept | • | • |
| Erase (CD-RW disc) | | |
| Last Track | • | • |
| All-Track | • | • |
| Multi Track | • | • |
| Disc | • | • |
| TOC (Unfinalise) | • | • |
| Track Skip ID Input | • | • |
| Digital Recording Level Control (dB) | • (-∞ ~ +20) | • (-∞ ~ +20) |
| Digital Recording Balance Control | • | • |
| Digital Synchro Recording (Ext. Input) | | |
| 1-Track | • | • |
| All-Track | • | • |
| All-Track + Auto Finalise | • | • |
| DAT ID Synchro | • | • |
| Category Code Display (Digital input) | • | • |
| Analogue Synchro Recording (Ext. Input) | | |
| 1-Track | • | • |
| All-Track | • | • |
| All-Track + Auto Finalise | • | • |
| Auto Synchro Start Level Adjustment | • | • |
| Audio Buffer | • | • |
| Auto Stop Delay | • | • |
| Rec Mute | • | • |
| Auto Track Increment | • | • |
| Auto Track Increment<br>Level Adjustment(Digital) | -24 ~ 78 dB (6 dB Step) | -24 ~ 78 dB (6 dB Step) |
| Auto Track Increment<br>Level Adjustment(Analogue) | -24 ~ 66 dB (6 dB Step) | -24 ~ 66 dB (6 dB Step) |
| Auto Time Increment | • (1, 3, 5 Seconds) | • (1, 3, 5 Seconds) |
| Manual Track Increment | • | • |
| Input Selector<br>(Digital (Coaxial/Optical)/Analogue) | • (Coax/Opt/Analogue) | • (Coax/Opt/Analogue) |
| Finalise (TOC Write) | • | • |
| Sampling Monitor | • | • |
| Fade-in/Fade out | • (1 ~ 12 sec) | • (1 ~ 12 sec) |
| SCMS<br>(Serial Copy Management System) | • | • |
| Previous Monitor | — | • |
| Copy (Internal) | | |
| 1 x Copy: Digital/Analogue | •/• | — |
| 2 x Copy: Digital/Analogue | •/• | — |
| Auto SCMS Copy | • | — |
| One Touch Copy | • | — |
| 1-Track | • | — |
| 1-Disc | • | — |
| Program | • | — |
| REC THIS | • | — |
| Auto Space | • | — |
| Rec Volume Control | • | — |
| Rec Balance Control | • | — |
| Playback Before Copy Executing | • | — |
| CD Text Display | • | • |
| CD Text Input | | |
| Characters | Caps/Small/Mark/Numeric | Caps/Small/Mark/Numeric |
| Disc Name | • | • |
| Artist Name | • | • |
| Track Name | • | • |
| Name Clip | • (3 Names) | • (3 Names) |
| Name Memory | • (3 Discs) | • (3 Discs) |
| **PLAYBACK FUNCTIONS** | | |
| Z-Concept | • | • |
| Direct Track Search | • | • |
| Manual/Track Search | • | • |
| Index Search | — | • |
| Direct Song Selection | • | • |
| Random Play | • (Multi Disc OK) | • |
| Programmed Play | • | • |
| Talk-Back Input | • | • |
| Direct Program | • | • |
| Programme Check | • | • |
| Programme Clear | • | • |
| Repeat Play | | |
| 1-Track, All-Track | • | • |
| Programmed, Random | • | • |
| Relay play | • (CD1/CD2/CD3/CD-R) | — |
| Skip Play | • | • |
| Fade-In/Fade-Out | • (1 ~ 12 sec) | • (1 ~ 12 sec) |
| Timer Play | • | • |
| **DISPLAY** | | |
| Level Meter | • (14 seg/ch) | • (14 seg/ch) |
| Remaining Recording Time | • | • |
| Time Display Switching | • | • |
| **TERMINALS** | | |
| Optical Digital Input/Output | 1/1 | 1/1 |
| Coaxial Digital Input/Output | 1/1 | 1/1 |
| Line Input/Output | 1/1 | 1/1 |
| Headphone Jack | 1 | 1 |
| Keyboard Terminal | 1 | — |
| Control Input | 1 | 1 |
| TEXT Control | — | 1 |

| CD Recorders Specifications | PDR-W839 | PDR-609 |
|---|---|---|
| **COMPACT DISC RECORDER** | | |
| Number of Channels | 2 | 2 |
| Frequency Response | 2 — 20,000 Hz | 2 — 20,000 Hz |
| Sampling Frequency (Recording/Playback) | 44.1 kHz | 44.1 kHz |
| Signal-to-Noise Ratio | | |
| Recording | 92 dB | 92 dB |
| Playback | 112 dB | 112 dB |
| Dynamic Range (EIAJ) | | |
| Recording | 92 dB | 92 dB |
| Playback | 98 dB | 98 dB |
| Total Harmonic Distortion (1 kHz) | | |
| Recording | 0.004 % | 0.004 % |
| Playback | 0.0017 % | 0.0017 % |
| **MISCELLANEOUS** | | |
| Power Requirements | | |
| Power Consumption | 17 W | 13 W |
| Dimensions (W x H x D) | 420 x 128 x 380 mm | 420 x 105 x 295 mm |
| Weight | 5.7 kg | 3.5 kg |
| **COMPACT DISC PLAYER** | | |
| Frequency Response | 2 — 20,000 Hz | — |
| Signal-to-Noise Ratio | 112 dB | — |

| CD File-Type Players & Multi CD Players Features | PD-F1009 | PD-F1007 | PD-F958 | PD-F706 | PD-F607 | PD-M603 (UK only) | PD-M426 | PD-M406 |
|---|---|---|---|---|---|---|---|---|
| **FORMAT** | | | | | | | | |
| Separate Single-Disc Slot (S = Single Loader) | • (S) | • (S) | • (S) | • | — | — | — | — |
| Disc Capacity | 301 | 301 | 101 | 25 + 1 | 25 | 6 | 6 | 6 |
| **WIDE-RANGE TECHNOLOGY** | | | | | | | | |
| Legato Link Conversion | • | • | — | — | — | — | — | — |
| **DIGITAL FEATURES** | | | | | | | | |
| 1-Bit DLC with Pulseflow D/A Converter | •[1] | •[1] | • | • | • | • | • | • |
| **LOW-NOISE DESIGNS** | | | | | | | | |
| Low-Loss Laser Pickup | • | • | • | • | • | • | • | • |
| **PLAYBACK OPTIONS** | | | | | | | | |
| Playback Modes | | | | | | | | |
| Single Disc | • | • | • | • | • | — | — | — |
| All Discs | • | • | • | • | • | • | • | • |
| "Custom File" Discs | • | • | • | • | • | — | — | — |
| Random Play Modes | | | | | | | | |
| Single Disc | • | • | • | • | • | • (2) | • | • |
| All Discs | • | • | • | • | • | • (2) | • | • |
| "Custom File" Discs | • | • | • | • | • | — | — | — |
| Programmed Play (Tracks/Discs) | 36 | 36 | 36 | 24 | 32 | 32 | 32 | 32 |
| Total Time Display | • | • | • | • | • | — | — | — |
| Repeat Modes | 8 | 8 | 8 | 8 | 8 | 7 | 4 | 4 |
| Single Track | • | • | • | • | • | — | • | • |
| Single Disc | • | • | • | • | • | — | — | — |
| All Discs | • | • | • | • | • | — | • | • |
| "Custom File" Discs | • | • | • | • | • | — | — | — |
| Single Disc Random | • | • | • | • | • | — | — | — |
| All Discs Random | • | • | • | • | • | — | • | • |
| "Custom File" Discs Random | • | • | • | • | • | — | — | — |
| Programmed Tracks | • | • | • | • | • | — | • | • |
| **CONVENIENCES** | | | | | | | | |
| "Custom Filing" | • (5) | • (10) | • (3) | • (3) | • (3) | — | — | — |
| CD Text | • | • | • | — | • | — | — | — |
| Title Input | — | • | • | — | — | — | — | — |
| CD-Deck Synchro | — | • | • | • | — | • | — | — |
| Full Function Remote Control with Power On/Off | • | • | • | • | • | • | • | — |
| Previous Disc Scan | • (20) | • (20) | • (20) | • (15) | • (15) | — | — | — |
| Best Selection Memory | • (20) | • (50) | • (20) | • (15) | • (15) | — | — | — |
| Hi-Lite Scan with Programmed Play | • | • | • | • | • | — | — | — |
| Memory Backup | — | • | • | — | — | — | — | — |
| Memory Hold | • | | • | • | • | • | • | • |
| Last Disc Memory | • | • | • | • | • | • | • | • |
| Magazine Hi-Lite Scan | — | — | — | — | — | • | • | • |
| Jog Dial | • | • | — | — | — | — | — | — |
| Powered Door | • | • | • | — | — | — | — | — |
| Direct Track Access by Number Keypad | • | •[2] | •[2] | •[2] | •[2] | • | | |
| Timer Play (Timer Optional) | — | — | — | — | — | • | • | • |
| Auto Power-On/Power-Down Eject (Single Disc Slot) | — | — | — | • | — | — | — | — |
| Liner-Notes File | — | — | 1 | 1 | 1 | — | — | — |
| **TERMINALS** | | | | | | | | |
| Optical Digital Output | • | • | • | • | • | • | — | — |
| SR (System Remote) Terminal | • (In) | — | • (In) | — | — | — | — | • |
| One More 300 CDs Connect | — | • | — | — | — | — | — | — |
| I/O Interface Terminals | — | — | • | — | — | — | — | — |
| Headphone Output with Volume Control | — | • | • | • | • | • | — | — |
| Keyboard Input | — | • | — | — | — | — | — | — |
| **ANTI-RESONANCE AND ANTI-VIBRATION DESIGNS** | | | | | | | | |
| Honeycomb Chassis | — | — | — | — | — | • | • | • |
| Large Insulators | • | • | • | • | • | • | • | • |

1) Without pulseflow
2) Remote control

| File-Type CD Players & Multi CD Players Specifications | PD-F1009 | PD-F1007 | PD-F958 | PD-F706 | PD-F607 | PD-M603 (UK only) | PD-M426 | PD-M406 |
|---|---|---|---|---|---|---|---|---|
| Frequency Response | 2 — 20,000 Hz | 2 — 20,000 Hz | 2 — 20,000 Hz | 2 — 20,000 Hz | 2 — 20,000 Hz | 2 — 20,000 Hz | 2 — 20,000 Hz | 2 — 20,000 Hz |
| Signal-to-Noise Ratio (EIAJ) | 105 dB | 98 dB | 98 dB | 98 dB | 98 dB | 102 dB | 98 dB | 98 dB |
| Dynamic Range (EIAJ) | — | — | 96 dB | 96 dB | 95 dB | — | 95 dB | 96 dB |
| Channel Separation (EIAJ) | — | — | — | — | — | — | — | 95 dB |
| Distortion (EIAJ) | — | — | 0.003 % | 0.003 % | 0.005 % | — | 0.005 % | 0.003 % |
| Power Requirements | — | — | 220 — 240 V, 50 — 60 Hz | 220 — 240 V, 50 — 60 Hz | 220 — 240 V, 50 — 60 Hz | — | 220 — 240 V, 50 — 60 Hz | 220 — 240 V, 50 — 60 Hz |
| Power Consumption | 12 W | — | — | 14 W | 13 W | 13 W | 12 W | 12 W |
| Dimensions (W x H x D) | 420 x 193 x 433 mm | 420 x 193 x 433 mm | 420 x 193 x 402 mm | 420 x 190 x 316 mm | 420 x 193 x 312 mm | 420 x 105 x 299 mm | 420 x 105 x 294 mm | 420 x 105 x 294 mm |
| Weight | 7.5 kg | 8 kg | 6.5 kg | 5 kg | 4.8 kg | 3.8 kg | 3.7 kg | 3.7 kg |

# FEATURES & SPECIFICATIONS

| MiniDisc Recorder Features | MJ-D508 |
|---|---|
| **DIGITAL FEATURES** | |
| Legato Link Conversion | • |
| **RECORDING FUNCTIONS** | |
| Recording Volume Control | |
| Analogue | • (single) |
| Digital | • (full fs) |
| Fader (5 sec.) | • (full fs) |
| Digital REC Volume Memory | • |
| Sampling Rate Converter | • |
| Advanced Parameter Processing | • |
| Digital NR (Noise Reduction) | • |
| Monaural Long Time Mode | • |
| Level Synchro Recording (1-Track/All) | • |
| Space Cut | • |
| Automark (3-step) | • |
| Recovery Recording (6 sec.) | • |
| Timer Recording | • |
| **PLAYBACK OPTIONS** | |
| Digital NR (Noise Reduction) | • |
| Fader (5 sec.) | • |
| DAC Mode (Digital Volume/Digital NR) | • |
| Monaural x 2 Playback | • |
| Time Skip (60/15 sec.) | • |
| Medley Playback (Fade-out: 2 sec/Cut: 10 sec.) | • |
| Programme Play | 30 |
| Random Play | • |
| Repeat Play (1/All/A-B) | • |
| A-B Repeat | • |
| Timer Play (Fader/Programme) | • |
| **EDIT FUNCTIONS** | |
| Title Input (Name Input) | • (40 x 3 names) |
| Move (Track/Programme) | • |
| Combine (Track/A-B) | • |
| Divide | • |
| Erase (All/1-track/A-B) | • |
| Undo | • |
| UTOC Write | • |
| **TERMINALS** | |
| Analogue Input (RCA Pin Jack) | 1 |
| Digital Input (Optical/Coaxial) | 1/1 |
| Analogue Output (RCA Pin Jack) | 1 |
| Digital Output (Optical) | 1 |
| Headphone Output (with Volume) | 1 |

| MiniDisc Recorder Specifications | MJ-D508 |
|---|---|
| Frequency Response | 8 — 20,000 Hz |
| Signal-to-Noise Ratio (EIAJ) | 100 dB |
| Power Requirements | 220 — 230 V, 50 — 60 Hz |
| Power Consumption | 15 W |
| Dimensions (W x H x D) | 420 x 105 x 294 mm |
| Weight | 3.5 kg |

Note: MD LP discs will only play on MD LP compatible players.

| CD Players Specifications | PD-S707 |
|---|---|
| Frequency Response | 2 — 20,000 Hz |
| Frequency Range Capability | 2 — 40,000 Hz[1] |
| Signal-to-Noise Ratio (EIAJ) | 110 dB |
| Dynamic Range (EIAJ) | 99 dB |
| Distortion (EIAJ) | 0.002 % |
| Power Requirements | 220 — 230 V, 50 — 60 Hz |
| Power Consumption | 14 W |
| Dimensions (W x H x D) | 420 x 128 x 374 mm |
| Weight | 7.2 kg |

1) With Hi-bit Legato Link Conversion.

| CD Players Features | PD-S707 |
|---|---|
| **FORMAT** | |
| Disc Capacity | 1 |
| **WIDE-RANGE TECHNOLOGY** | |
| Hi-bit Legato Link Conversion | • |
| **DIGITAL FEATURES** | |
| DAC 24 (Jitter Proof 24-bit D/A Converter) | • |
| **STRUCTURAL DESIGNS** | |
| Stable Platter Mechanism | • |
| Centre Tray Mechanism | • |
| **LOW-NOISE DESIGNS** | |
| Accurate Transmission System | • |
| Low-Loss Laser Pickup | • |
| Display Off Switch | • |
| **PLAYBACK OPTIONS** | |
| Edit Modes | |
| Compu-PGM | • |
| Auto Programme | • |
| Random Play Modes | •[1] |
| Programmed Play (Tracks/Discs) | 24 |
| Repeat Modes | • (6) |
| **CONVENIENCES** | |
| Time Location | •[1] |
| CD-Deck Synchro | • |
| Remote Control Unit with Power On/Off | • |
| Digital Level Control | •[1] |
| Hi-Lite Scan | • |
| Jog Dial Track Search | • |
| Direct Track Access by Number Keypad | •[1] |
| Timer Play (Timer Optional) | • |
| Music Calendar | • |
| **TERMINALS** | |
| Digital Output (O = Optical/C = Coaxial) | O |
| Digital Output On/Off | • |
| Headphone Output with Volume Control | • |
| **ANTI-RESONANCE AND ANTI-VIBRATION DESIGNS** | |
| Double Layered Chassis | • |
| Large Insulators | • |

1) Remote control

| Integrated Amplifiers Specifications | A-607R | A-509R | A-307R | A-209R | A-109 |
|---|---|---|---|---|---|
| **AMPLIFIER SECTION** | | | | | |
| Power Output | | | | | |
| DIN (1 kHz, 4 Ω) | 120 W x 2 | 90 W x 2 | 80 W x 2 | 60 W x 2 | — |
| DIN (1 kHz, 8 Ω) | 75 W x 2 | 60 W x 2 | 55 W x 2 | 45 W x 2 | 40 W x 2 |
| Continuous Power Output | | | | | |
| 20 – 20,000 Hz, 4 Ω | 90 W x 2[1] | 65 W x 2[1] | 65 W x 2[1] | 45 W x 2[1] | — |
| 20 – 20,000 Hz, 8 Ω | 80 W x 2[1] | 45 W x 2[1] | 45 W x 2[1] | 35 W x 2[1] | 30 W x 2[1] |
| Total Harmonic Distortion (20 – 20,000 Hz, 8 Ω, at -3 dB) | 0.06 %[1] | 0.05 %[1] | 0.08 %[1] | 0.08 %[1] | 0.08 %[1] |
| Input (Sensitivity/Impedance) | | | | | |
| PHONO (MM) | 2.8 mV/50 kΩ | 2.8 mV/50 kΩ | 2.8 mV/50 kΩ | 2.8 mV/50 kΩ | 2.8 mV/50 kΩ |
| CD, TUNER, AUX, TAPE | 200 mV/50 kΩ | 200 mV/50 kΩ | 200 mV/50 kΩ | 200 mV/50 kΩ | 200 mV/50 kΩ |
| Frequency Response | | | | | |
| CD, TUNER, AUX, TAPE | 5 — 100,000 Hz[1] +0 dB, –3 dB | 5 —100,000 Hz[1] +0 dB, –3 dB | 5 — 100,000 Hz[1] +0 dB, –3 dB | 5 — 100,000Hz[1] +0 dB, –3 dB | 5 — 100,000 Hz[1] +0 dB, –3 dB |
| Signal-to-Noise Ratio (DIN; continuous rated power output/50 mW) | | | | | |
| PHONO (MM) | 71 dB/67 dB[1] | 71 dB/67 dB[1] | 71 dB/67 dB[1] | 71 dB/67 dB[1] | 71 dB/67 dB[1] |
| CD, TUNER, AUX, TAPE | 95 dB/71 dB[1] | 95 dB/71 dB[1] | 91 dB/71 dB[1] | 91 dB/71 dB[1] | 91 dB/71 dB[1] |
| **MISCELLANEOUS** | | | | | |
| Power Requirements | 220 — 230 V, 50 — 60 Hz | 220 — 230 V, 50 — 60 Hz | 220 — 230 V, 50 — 60 Hz | 220 — 230 V, 50— 60 Hz | 220 — 230 V, 50 — 60 Hz |
| Power Consumption | 220 W | 160 W | 140 W | 130 W | 80 W |
| Dimensions (W x H x D) | 420 x 128 x 335 mm | 420 x 128 x 335 mm | 420 x 114 x 307 mm | 420 x 114 x 307 mm | 420 x 114 x 307 mm |
| Weight | 7 kg | 6.9 kg | 5.9 kg | 4.7 kg | 4.3 kg |

1) Direct Switch on

## Integrated Amplifiers Features

| | A-607R | A-509R | A-307R | A-209R | A-109 |
|---|---|---|---|---|---|
| **POWER OUTPUT** | | | | | |
| DIN Continuous Power Output (1 kHz) | | | | | |
| 4 Ω | 120 W x 2 | 90 W x 2 | 80 W x 2 | 60 W x 2 | — |
| 8 Ω | 75 W x 2 | 60 W x 2 | 55 W x 2 | 45 W x 2 | 40 W x 2 |
| **WIDE-RANGE TECHNOLOGY** | | | | | |
| Wide-Range Linear Circuit | • | • | • | • | • |
| High Channel Separation Design | • | • | — | — | — |
| **AUDIO FEATURES** | | | | | |
| Direct Energy MOS FET Circuit | • | • | • | • | • |
| Low-Impedance Driving Capability | • | • | • | • | — |
| Muting | • | — | — | — | — |
| Tone Controls | • | • | • | • | • |
| Loudness | • | • | • | • | • |
| Large Insulators | • | • | • | • | • |
| **CONSTRUCTION** | | | | | |
| Advanced Direct Connection | • | • | — | — | — |
| Symmetrical Construction | • | • | • | • | • |
| Sound Stabilisers | • | • | — | • | • |
| **LOW-NOISE DESIGNS** | | | | | |
| Toroidal Transformer | • | — | — | — | — |
| Aero Wing Chassis | • | • | • | • | • |
| "Silent" Microprocessor System | • | • | • | • | — |
| "DIRECT" Switch | • | • | • | • | • |
| Local Off Circuit (Tone/Phono) | • | • | • (Phono) | • (Phono) | • (Phono) |
| **HIGH-QUALITY PARTS** | | | | | |
| Complementary Capacitor Pair | • | • | • | • | • |
| Speaker A/B Switching Relay | • | • | • | • | • (only A) |
| Motor-Driven Volume Control | • | • | • | • | — |
| Input Switching Relay | CD, TAPE1/MD | TAPE1/ CD-R/MD | — | — | — |
| Gold-Plated CD/Phono Inputs | • | — | — | — | — |
| **CONVENIENCES** | | | | | |
| SR (System Remote) Control Unit | • | • | • | • | — |
| Record Selector | • | • | — | — | — |
| Two-Way Dubbing | • | • | • | • | • |
| **TERMINALS** | | | | | |
| Audio Inputs | 6 | 6 | 6 | 6 | 6 |
| SR (System Remote) Terminal | • | • | • | • | — |
| Headphone Output | • | • | • | • | • |
| Speaker Outputs | 2 | 2 | 2 | 2 | 1 |
| Discrete Outputs (All Channels) | • | • | • | • | • |
| A+B (Parallel) | • | • | • | • | — |

## Cassette Decks Features

| | CT-W806DR | CT-W606DR | CT-W505R | CT-W208R | CT-S250 |
|---|---|---|---|---|---|
| **WIDE-RANGE TECHNOLOGY** | | | | | |
| 20-bit A/D-D/A Converter | • | • | — | — | — |
| Legato Link Conversion | • | — | — | — | — |
| **MECHANICAL FEATURES** | | | | | |
| Centre Mount Design | — | — | — | — | • |
| **AUDIO FEATURES** | | | | | |
| Digital Noise Reduction | • | • | — | — | — |
| FLEX (Frequency Level Expander) | • (digital) | • (digital) | • | — | • |
| ALCA (Auto Level Control with Tape Analysis) | • (digital) | | • | — | — |
| TDNS (Tape Duplication Noise Suppressor) | • (digital) | • (digital) | • | — | — |
| Super Auto BLE XD | • (digital) | • (digital) | — | — | — |
| Auto BLE | — | — | • | — | — |
| Dolby Noise Reduction | B/C | B/C | B/C | B/C | B/C |
| Dolby HX Pro | • | • | • | — | — |
| **LOW-NOISE FEATURES** | | | | | |
| Display Off Switch | — | — | — | — | • |
| **ANTI-RESONANCE AND ANTI-VIBRATION DESIGNS** | | | | | |
| Honeycomb Chassis | • | • | • | • | • |
| **CONVENIENCES** | | | | | |
| Double Cassette Conveniences | • | • | • | • | — |
| Auto-Reverse (R = Record, P = Play) | Deck I/II (R/P) | Deck II (R/P)/I (P) | Deck II (R/P)/I (P) | Deck II (R/P)/I (P) | — |
| Digital Synchro (O = Optical) | • (O) | — | — | — | — |
| CD-Deck Synchro | • | • | • | — | — |
| Powered Loading/Eject | • | — | — | — | — |
| Timer Record/Play (Timer Optional) | • | — | — | — | — |
| Relay Record/Play (R = Record, P = Play) | • (R/P) | • (P) | • (P) | • (P) | — |
| Parallel Recording | • | — | — | — | — |
| Normal/High-Speed Dubbing | • | • | • | • | — |
| Last Memory | • | • | • | — | — |
| Music/Skip Search | • | • | • | • | • |
| Auto Space Rec Mute | • | • | • | • | • |
| Headphone Output (V = with Volume Control) | • | • | • | — | — |
| SR (System Remote) Terminal | • | • | • | • | • |
| Microphone Input | • | — | — | — | — |
| **DISPLAY** | | | | | |
| Electronic Counter | 2-Mode | 2-Mode | 2-Mode | — | 2-Mode |
| Fluorescent Peak-Hold Level Meter | • | • | • | • (LED) | • |

## Cassette Decks Specifications

| | CT-W806DR | CT-W606DR | CT-W505R | CT-W208R | CT-S250 |
|---|---|---|---|---|---|
| Number of Motors | 4 | 2 | 2 | 2 | 1 |
| Type of Heads | | | | | |
| Playback Head | | 1 | 1 | 1 | — |
| Recording/Playback Head | 2 | 1 | 1 | 1 | 1 |
| Erasing Head | 2 | 1 | 1 | 1 | 1 |
| Wow and Flutter WRMS | 0.09 % | 0.09 % | 0.09 % | 0.09 % | 0.07 % |
| DIN | ± 0.19 % | ± 0.19 % | ± 0.19 % | ± 0.19 % | ± 0.18 % |
| Frequency Response (-20 dB) | | | | | |
| Type IV (Metal Tape) | 2 — 20,000 Hz | 20 — 20,000 Hz | 20 — 16,500 Hz | 20 — 16,500 Hz | 20 — 18,000 Hz |
| Type II (Chrome Tape) | 20 — 19,000 Hz | 20 — 19,000 Hz | 20 — 16,000 Hz | 20 — 16,000 Hz | 20 — 17,000 Hz |
| Type I (Normal Tape) | 20 — 18,000 Hz | 20 — 18,000 Hz | 20 — 16,000 Hz | 20 — 16,000 Hz | 20 — 17,000 Hz |
| Signal-to-Noise Ratio | | | | | |
| Digital NR (with Dolby B/C NR) | 90 dB | 90 dB | — | — | — |
| Digital NR (without Dolby NR) | 82 dB | 82 dB | — | — | — |
| Digital NR/Dolby NR Off | 57 dB | 57 dB | 57 dB | 57 dB | 57 dB |
| Power Requirements | 220 — 230 V, 50 — 60 Hz | 220 — 230 V, 50 — 60 Hz | 220 — 230 V, 50 — 60 Hz | 220 — 230 V, 50 — 60 Hz | 220 — 230 V, 50 — 60 Hz |
| Power Consumption | 25 W | 19 W | 17 W | 16 W | 16 W |
| Dimensions (W x H x D) | 420 x 125 x 250 mm | 420 x 125 x 250 mm | 420 x 125 x 250 mm | 420 x 125 x 250 mm | 420 x 125 x 280 mm |
| Weight | 4.7 kg | 4.4 kg | 4 kg | 3.8 kg | 3.5 kg |

# FEATURES & SPECIFICATIONS

| Speakers Specifications — 1 | S-H810V | S-H710V | S-H610V | S-H510V | S-H310V-QL |
|---|---|---|---|---|---|
| Enclosure | Front duct bass-reflex floor-standing type | Bottom-duct bass-reflex floor-standing type | Bass-reflex floor-standing type | Rear-duct bass-reflex floor-standing type | Front-duct bass-reflex floor-standing type |
| Speakers | | | | | |
| Woofer | 13 cm cone type (x 2) | 10 cm cone-type (x 2) | 7.7 cm cone woofer (x 2) | 14 cm cone type (x 3) | 14 cm cone type (x 2) |
| Midrange | Coaxial unit: 13 cm cone-type | — | — | — | — |
| Tweeter | Coaxial unit: 2.5 cm dome-type + super tweeter: Riffel-type | 2.5 cm dome-type + Super Tweeter: Riffel-type | 2 cm dome | 2.5 cm dome type | 2.5 cm dome type |
| Impedance | 6 Ω | 8 Ω | 8 Ω | 8 Ω | 8 Ω |
| Frequency Range | 35 — 100,000 Hz | 40 — 100,000 Hz | 60 — 20,000 Hz | 30 — 35,000 Hz | 35 — 35,000 Hz |
| Sensitivity (1 W/m) | 89 dB | 86 dB | 86 dB | 90 dB | 90 dB |
| Operation power to get 96 dB SPL at 1 m distance (DIN) | 5 W | 10 W | 10 W | 4 W | 4 W |
| Maximum Power | 130 W | 130 W | 100 W | 100 W | 100 W |
| Dimensions (W x H x D) | 250 x 1,190 x 300 mm | 270 x 1,100 x 270 mm (with base) 156 x 1,065 x 150 mm (without base) | 340 x 1,050 x 340 mm (with base) | 251 x 1,030 x 422 mm (with base) 185 x 1,000 x 390 mm (without base) | 240 x 925 x 345 mm (with base) 184 x 900 x 318 mm (without base) |
| Weight | 25 kg | 11.5 kg | 8.6 kg | 18.5 kg | 11.5 kg |

| Speakers Specifications — 2 | S-H230VA-QL S-H230VA-W | S-F80 | CS-7070 | CS-5070 | CS-3070 |
|---|---|---|---|---|---|
| Enclosure | Front-duct bass-reflex floor-standing type | Front-duct bass-reflex bookshelf type | Rear-duct bass-reflex bookshelf type | Rear-duct bass-reflex bookshelf type | Rear-duct bass-reflex bookshelf typ |
| Speakers | | | | | |
| Woofer | 13 cm cone-type | Coaxial unit: 13 cm cone-type | 25 cm cone-type | 20 cm cone-type | 20 cm cone-type |
| Midrange | 7 cm cone-type | — | 7.7 cm cone-type | 7.7 cm cone-type | 7.7 cm cone-type |
| Tweeter | 2.5 cm dome-type | Coaxial unit: 2.5 cm dome-type | 6.6 cm cone-type | 6.6 cm cone-type | 6.6 cm cone-type |
| Impedance | 8 Ω | 6 Ω | 8 Ω | 8 Ω | 8 Ω |
| Frequency Range | 40 — 20,000 Hz | 50 — 50,000 Hz | 35 — 20,000 Hz | 40 — 20,000 Hz | 45 — 20,000 Hz |
| Sensitivity (1 W/m) | 89 dB | 88 dB | 90 dB | 90 dB | 90 dB |
| Operation power to get 96 dB SPL at 1 m distance (DIN) | 5 W | 6.3 W | 4 W | 4 W | 4 W |
| Maximum Power | 80 W | 130 W | 190 W | 140 W | 120 W |
| Dimensions (W x H x D) | 202 x 870 x 271 mm | 190 x 350 x 300 mm | 334 x 695 x 273 mm | 298 x 624 x 243 mm | 258 x 540 x 234 mm |
| Weight | 6.8 kg | 7.3 kg | 10.5 kg | 8.3 kg | 6.1 kg |

| Design Audio Systems Features | NS-11-Q | NS-11-S |
|---|---|---|
| **SYSTEM** | **XC-L11/M-L11** | **XC-L11/M-L11** |
| Remote Control Unit | • | • |
| **DISPLAY** | | |
| Separate type | • | • |
| Main Operation Buttons | • | • |
| Dimmer Control | • | • |
| Remote Control Sensor | • | • |
| **AMPLIFIER SECTION** | **M-L11** | **M-L11** |
| Power (RMS, 1 kHz, 6 Ω) | | |
| Front | 30 W x 2 | 30 W x 2 |
| Subwoofer | 50 W | 50 W |
| Subwoofer Level Control | • (3-step) | • (3-step) |
| Bass/Treble Control | • | • |
| L/R Balance Control | • | • |
| **TUNER SECTION** | **XC-L11** | **XC-L11** |
| RDS Tuner | • | • |
| Band (FM/AM) | • | • |
| Presets | 30 | 30 |
| Auto Tuning | • | • |
| Timer | • (3-mode) | • (3-mode) |
| **CD PLAYER SECTION** | **XC-L11** | **XC-L11** |
| Mechanism | Single Tray | Single Tray |
| Motorised Door | • | • |
| Random/Repeat Play | •/• | •/• |
| PGM No. | 24 | 24 |
| Optical Digital Output | • | • |
| **SPEAKERS** | **S-L11-Q-LRW** | **S-L11-S-LRW** |
| Cone Size | | |
| Satellite | 8.7 cm | 8.7 cm |
| Subwoofer | 16 cm | 16 cm |
| Maximum Power | | |
| Satellite | 30 W | 30 W |
| Subwoofer | 50 W | 50 W |

| Design Audio Systems Specifications | NS-11-Q | NS-11-S |
|---|---|---|
| **STEREO CD RECEIVER, STEREO CD TUNER/STEREO POWER AMPLIFIER** | **XC-L11/M-L11** | **XC-L11/M-L11** |
| Amplifier section | **M-L11** | **M-L11** |
| Continuous power output | | |
| Stereo | | |
| (RMS) | 30 W x 2 | 30 W x 2 |
| (DIN) | 23 W x 2 | 23 W x 2 |
| Subwoofer (RMS) (DIN) | 50/43 W | 50/43 W |
| Power Requirements | 220 – 230 V (UK 230 V), 50/60 Hz | 220 – 230 V (UK 230 V), 50/60 Hz |
| Power consumption: In use/standby | 102/0.9 W | 102/0.9 W |
| Dimensions (W x H x D) | 190 x 80 x 267 mm | 190 x 80 x 267 mm |
| Net weight | 4 kg | 4 kg |
| Tuner section | XC-L11 | XC-L11 |
| FM Usable Sensitivity (IHF Mono) | 18.3 dBf (2.2 µV, 75 Ω) | 18.3 dBf (2.2 µV, 75 Ω) |
| FM S/N ratio (DIN) (Mono/Stereo) | 66/60 dB | 66/60 dB |
| CD Player section | XC-L11 | XC-L11 |
| Frequency Response | 4 – 20,000 Hz | 4 – 20,000 Hz |
| S/N ratio (EIAJ) | 110 dB | 110 dB |
| Dimensions (W x H x D) | 220 x 65 x 317 mm | 220 x 65 x 317 mm |
| Net weight | 2.2 kg | 2.2 kg |
| **SATELLITE AND SUBWOOFER SPEAKER SYSTEM** | **S-L11-Q-LRW** | **S-L11-S-LRW** |
| Cone Size | | |
| Satellite | 8.7 cm | 8.7 cm |
| Subwoofer | 16 cm | 16 cm |
| Frequency Range | | |
| Satellite | 110 – 20,000 Hz | 110 – 20,000 Hz |
| Subwoofer | 25 – 800 Hz | 25 – 800 Hz |
| Sensitivity (1 m/W ) | | |
| Satellite | 84 dB | 84 dB |
| Subwoofer | 80.5 dB | 80.5 dB |
| Maximum Power | | |
| Satellite | 30 W | 30 W |
| Subwoofer | 50 W | 50 W |
| Dimensions (W x H x D) | | |
| Satellite | 125 x 228 x 70 mm | 125 x 228 x 70 mm |
| Subwoofer | 190 x 281 x 255 mm | 190 x 281 x 253 mm |
| Net weight | | |
| Satellite | 1.0 kg | 1.0 kg |
| Subwoofer | 3.8 kg | 3.7 kg |
| **OPTIONAL CABLE** | **JC-L11** | **JC-L11** |
| Cable Length | 5 m | 5 m |

| Headphones Specifications | HDJ-1000 | SE-M380 | SE-M280 |
|---|---|---|---|
| Type | Closed | Closed | Closed |
| Frequency Response | 5 — 30,000 Hz | 5 — 28,000 Hz | 5 — 22,000 Hz |
| Impedance | 40 Ω | 32 Ω | 32 Ω |
| Max.Input Power | 3,500 mW | 1,500 mW | 1,200 mW |
| Sensitivity | 107 dB | 105 dB | 102dB |
| Driver Unit | ø 50 mm | ø 40 mm | ø 40 mm |
| Plug | Mini/Standard<br>Gold-Plated | Mini/Standard<br>Gold-Plated | Mini/Standard<br>Gold-Plated |
| Cord Length | 1.2 m (coiled)/+/- 3 m (straight) | 3.5 m (Single) (OFC) | 3.5 m (Single) (OFC) |
| Net Weight (w/o cord) | 270 g | 205 g | 225 g |
| Head Band | Free adjust | Free adjust | Free adjust |

| Headphones Features and Specifications | SE-DIR800C (headphone) |
|---|---|
| POWER SOURCE | DC 3 V (UM-3, AA-sized x2)<br>DC 2.4 V (rechargable battery x2) |
| Type | Closed dynamic stereo headphones |
| Frequency response | 12 — 22,000 Hz |
| Driver Unit | diameter of 40 mm |
| Weight (without battery) | 250 g |
| Operation Time | 27 hours (UM-3, AA-size) / 16 hours (rechargeable battery) |

| Headphones Features and Specifications | SE-DIR800C (transmitter) |
|---|---|
| POWER REQUIREMENTS | DC9V/800 mA (with attached AC adaptor) |
| Decoder formats | Dolby Digital<br>Dolby Surround<br>DTS<br>PCM (Fs = 44, 1 kHz, 48 kHz) |
| Surround functions | Dolby Headphone mode<br>(DH1/DH2/DH3/OFF)<br>Dolby ProLogic II mode<br>(AUTO/MOVIE/MUSIC/OFF) |
| Audio Inputs | Optical Input<br>(rectangular-type) x1<br>Digital Input<br>(pin jack) x1<br>Analog input<br>(pin jack left/right) x1 |
| Dimensions (WxHxD) | 209 x 50 x 104 mm |
| Weight | 520 g |
| Transmission System | Digital Infrared<br>Audio Transmission |
| Transmission Range | 12 — 22,000 Hz |
| Effective range | Approximately 8 m to the front |

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